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# ANNUAL REPORT

OF THE

# Board of Grain Commissioners for Canada

FOR THE YEAR

1957

# DEPARTMENT OF TRADE AND COMMERCE OTTAWA, CANADA

Minister:
Hon. GORDON CHURCHILL, M.P.

Deputy Minister: MITCHELL W. SHARP

EDMOND CLOUTIER, C.M.G., O.A., D.S.P. QUEEN'S PRINTER AND CONTROLLER OF STATIONERY OTTAWA, 1958.

Price: 35 cents.

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Winnipeg, Manitoba, January 24, 1958.

The Honourable Gordon Churchill, M.P., Minister of Trade and Commerce, Ottawa, Canada.

Sir:

We beg to submit herewith Report of the Board of Grain Commissioners for Canada for the year 1957 in compliance with Section 23 of the Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1956 to July 31, 1957, expenditures and revenue for <sup>4</sup> the fiscal year April 1, 1956 to March 31, 1957, and summarizes the major activities of the Board for the 1957 calendar year.

# Grain Supplies and Disposition—Crop Year 1956-57

Heavier crops, reduced exports, increased domestic usage and a record closing carryover featured the 1956-57 grain crop season in Canada.

A total of 827.4 million bushels of the five principal grains were on hand August 1, 1956, either in licensed storage, in farmers' bins or in transit between positions. To these supplies the substantial 1956 crops added an all Canada production total of 1,409.7 million bushels made up of 573.1 millions of wheat, 524.4 millions of oats, 269.1 millions of barley, 8.6 millions of rye and a record 34.5 millions of flaxseed. This available supply total of 2,237.1 million bushels of the five principal grains represented a 353.4 million bushel gain over the 1955-56 Crop Year level.

Export shipments, either as grain or in the form of wheat flour and milled oats, absorbed 385.4 million bushels of these supplies. Canadians, themselves, used a record quantity—732.0 million bushels of the five grains—for human consumption, commercial products, animal feed and seed during the crop season. Despite this heavy combined disappearance of 1,117.4 millions the volume of grain held at the close of the crop season on July 31, 1957, amounted to 1,119.7 millions—a record year end carryover.

Grain movement from farm to market maintained a moderate steady pattern during the 1956-57 crop season. Shipping during the fall months was heavier than over the opening period of 1955-56 but winter and spring handlings were light and in comparison did not rise to the peak levels recorded during the previous year. The overall volume, however, compared favourably and represented above average handlings in most sectors—an exception being the eastern seaboard traffic which declined noticeably during the year under review.

# Marketings

Primary grain deliveries from Canadian farms to the licensed elevator system totalled 588.7 million bushels of wheat, oats, barley, rye and flaxseed, combined. This inward volume represented a 20.0 million bushel increase over 1955-56 marketings and was the fourth heaviest delivery total on record. Receipts at western country elevators accounted for 578.6 million bushels of this total; prairie farmers marketed a further 6.5 million bushels at other interior elevators and mills, and shipped .3 million bushels over loading platforms. A slightly increased volume of eastern grown grain, chiefly wheat, moved into the licensed system during 1956-57—3.3 millions compared with only 1.4 millions in 1955-56.

# **Country Elevator Shipments**

Grain car loadings at country points over the Crop Year totalled 560. million bushels and exceeded the previous year's rail movement by 20.9 millions Shipments of wheat—359.4 millions, and of flaxseed—26.9 millions, were heavied than during the previous year; barley movement was steady at 116.0 million bushels while rail traffic of oats (52.5 millions) and rye (5.9 millions) was down from 1955-56 levels. A slightly higher percentage of these cars moved westware—24.2% compared with 21.0% in 1955-56.

# Terminal Handlings

These heavier country elevator shipments were not paralleled by simila forwarding at the Lakehead. Fort William-Port Arthur grain unloads at 351, million bushels all grains were 17.3 millions above the previous year but decline in the vessel loadings of wheat, barley and rye cut the total outward movemen to 329.6 million bushels compared with 348.0 millions in 1955-56. As a resul Lakehead terminal stocks were held at a relatively high level throughout th season; an average storage of 64.1 million bushels of the five principal grains wa recorded over the year and a peak stock of 81.6 million bushels was reached jus prior to the opening of navigation.

This reduced Great Lakes traffic stemmed from a sharp decline in Eastern Seaboard exports and a consequent slowdown throughout the eastern system Canadian Atlantic Seaboard ports, St. Lawrence and Maritime, reported a 47.1 million bushel drop in ocean shipping during the crop year. Movement during the fall months of 1956 was relatively strong but clearances from February to July, 1957, were only a fraction of the previous season's closing export traffic Minor gains in shipments of flaxseed were offset by a drop of 49.1 million bushel in wheat clearances (101.5 millions) and total vessel loadings of the five principal grains combined through this ocean shipping sector amounted to only 145.1 million bushels compared with 193.0 millions handled by these eastern seaboard elevators in 1955-56.

The Port of Churchill, shipping during the stronger fall export period increased its overseas wheat loadings in 1956-57 to 48 boats with a total carge of 16.3 million bushels of wheat.

In contrast to the reduced eastern seaboard traffic, Pacific coast terminals established a new all-time record for ocean grain shipments during the 1956-55 season. The 139.0 million bushels of wheat, oats, barley and flaxseed loaded to ocean vessels were approximately 5.1 million bushels heavier than the former combined grains record established in 1953-54 and were more than 25.0 millions above the 1955-56 outward movement.

# **Exports**

Canada § 1956-57 grain and flour exports were made up of 228.3 million bushels of wheat, 34.5 millions of wheat flour (expressed in terms of wheat bushels), 18.3 millions of oats, .4 millions of milled oats (grain equivalent), 76.9 million bushels of barley, 5.4 millions of rye and a record of 21.6 million bushels of flaxseed. The combined grain and flour total of 385.4 million bushels although down 16.7 millions from 1955-56 levels, was still 67.5 million bushels better than the long term, 30 year average of Canadian grain and flour exports (317.9 million bushels). As noted in the forwarding review, the shipping pattern was in definite contrast to the heavy closing trade recorded in 1955-56 Shipments during the first six months totalled 206.0 millions and were 51.4 millions above the exports for the opening half of 1955-56; from February 1,

1957 to July 31, clearances dropped to 179.4 millions compared with 247.5 million bushels moved during the last half of the preceding season. Principal reduction in the Canadian export trade was in clearances of wheat in grain form —down 40.9 millions from the previous year. This drop, coupled with more moderate declines in clearances of wheat flour and rye, reduced Canada's share of an expanding international bread grain trade to an estimated 22% compared with 28% of the 1955-56 world movement. Compensating in part for the lighter wheat and rye exports were expanded clearances of Canadian oats, barley and flaxseed. Oats exports including rolled oats and oatmeal climbed to 18.7 million bushels from 4.1 millions in 1955-56; barley clearances advanced 12.6 millions to 76.9 millions. Exports of Canadian flaxseed at 21.6 million bushels represented an all-time record for clearances of this grain. These heavier coarse grain clearances increased Canada's percentage of the world coarse grain trade to an estimated 16% compared with approximately 14% in 1955-56.

#### Domestic Usage

Crop year balances indicate a Canadian domestic grain disappearance of approximately 732.0 million bushels during 1956-57. This includes grain used on farms for seed and feed as well as quantities absorbed by mills and processors for the production of flour for Canadian use, cereals, feed products, oils, industrial alcohol, malt and other commercial products derived from grain. This consumption represented a further increase in Canadian home grain usage which has been rising steadily over the past several years.

#### Carryover

The supplies of 1,119.7 million bushels of the five principal grains held by Canada in elevators, in transit and in farm bins at the close of the season represented a record July 31 carryover. These supplies were approximately 35% above the 827.4 million bushels held in similar positions on July 31, 1956, and some 141% above the ten-year (1947-56) average of 464.0 millions. An increase of 34.4 million bushels in the volume of wheat in licensed storage was the only major change in the quantities held in visible elevator and transit positions with the big increases in year end stocks of wheat and oats occurring in farm held supplies which were at the highest levels on record. The breakdown of the July 31, all-position carryover with last year's totals in brackets was estimated as follows:—wheat 729.2 (579.6), oats 226.1 (119.1), barley 142.7 (110.9), rye 14.1 (15.3) and flaxseed 7.6 (2.5) all millions of bushels.

# Licensing and Bonding

The total licensed storage capacity at July 31, 1957, was 628,302,350 bushels including 15,142,090 bushels in special annexes. Licences were in effect for 5,468 country, terminal, mill and eastern elevators; an increase of 13,623,450 bushels capacity and a decrease of seventeen licences over the same date in 1956. Approximately one-half of the increase in storage capacity occurred at country elevators.

#### **Assistant Commissioners**

Through its four Assistant Commissioners, the Board kept in close touch with the operation of licensed country elevators in the Western Division. During the year 1957, the Assistant Commissioners inspected 687 elevators in Manitoba, 1,043 in Northern Saskatchewan, 891 in Southern Saskatchewan, and 1,625 in Alberta, a total of 4,246. This inspection included checks on scales, sieves and certain other equipment; deductions for shrinkage and Prairie

Farm Assistance Act Levy; and posting of current Board Regulations applying to country elevators.

Complaints originating from country points totalled 28, including 3 carried forward from 1956, as compared with 38 in the previous year.

Disposition of complaints investigated was as follows:

	Manitoba	Saskat- chewan	Alberta	Total
No grounds for complaint		10	1	11
Settlement effected	1	7*	_	8
Outside jurisdiction of Board		1		1
Penalty levied against licensee		1		1
Licensee warned	1	_	-	1
Complaint withdrawn		5	-	5
Not yet disposed of	-	1	_	1
Totals	2	25	1	28

<sup>\*</sup>Includes one formal investigation.

The Assistant Commissioners received and handled numerous inquiries on various matters related to country elevator operation. They also discussed accumulated overages with elevator agents concerned.

#### Prosecutions

One penalty for a breach of Section 6 of Board Regulation No. 18 was levied and collected in the amount of \$200.00.

# Shortages and Overages, Country Elevators

Due to continuation of the congested storage situation at licensed country elevators in the Prairie Provinces, only 1,452 out of a total of 5,360 elevators could be weighed over during the crop year 1956-57 by the companies operating them. The following table contains an analysis and comparison of the results disclosed by these audits:

ELEVATORS REPORTING	1956-57	1955-56
Shortages. Neither overages nor shortages Overages of less than .25%. Overages of .25% to .50%. Overages over .50%	481 2 677 224 68	627 2 738 219 67
Total elevators weighed over	1,452	1,653

The Board considered that reported overages for some of the elevators were excessively high and summoned a total of ninety-four elevator agents to appear before it at hearings held at Winnipeg, Regina, Saskatoon, Calgary and Edmonton. At these sessions, members of the Board and Assistant Commissioners interviewed the agents and examined records concerning their operations in the presence of superintendents and other senior officials of the elevator companies concerned.

#### Regulations and Orders

Regulation No. 4 was repealed by the Board on October 28, 1957 and replaced by a new Regulation No. 4 which includes provisions applying to licensed eastern elevators in regard to cleaning of grain and bins.

Minor amendments were made to Regulations Nos. 5, 6 and 15 effective August 1, 1957, to include percentages applying to rapeseed.

Section 20 of Regulation No. 18 was amended effective August 1, 1957 by revising the table of dockage testing equipment and including therein additional items related to rapeseed and mustard seed.

Regulations Nos. 20, 21 and 22 were also amended effective August 1, 1957 by increasing certain maximum elevation charges for eastern, country and terminal elevators. The provision for fifteen days free storage between January 1 and March 31 at eastern elevators was removed from Regulation No. 20. In Regulation No. 21, the Allowance for Invisible Loss and Shrinkage on Flax delivered to country elevators was reduced by one-half of one per cent, to one per cent on straight grades and one and one-half per cent on tough and damp grades. In Section 10 of Regulation No. 20, weights per bushel to be used in assessment of eastern elevator charges were established for rapeseed, mustard seed, peas, soybeans and sunflower seed.

By Order No. 1—1957-58, dated October 16, 1957, the Board altered, effective October 21, 1957, the provisions of a portion of Regulation No. 5 to effect a change in the procedure for grading of Western Barley containing stones, gravel or like material.

By Order No. 2—1957-58, dated October 18, 1957, the Board renewed until further notice its suspension of a provision of Regulation No. 23 relating to storage of grain at licensed country elevators.

#### Committees on Grain Standards

The Board constituted Committees on Western and Eastern Grain Standards for the Crop Year 1957-58 in accordance with the provisions of Section 25 of the Canada Grain Act. Personnel of these Committees is given in Appendix A.

A special meeting of the Western Committee took place at Winnipeg on January 15, 1957. The Committee decided to eliminate the commercial grade known as Extra No. 2 Feed Barley, effective August 1, 1957, and also named and defined new commercial grades of Rapeseed.

Regular meetings of this Committee were convened on October 17, 1957 and November 15, 1957, to receive reports concerning the quality of the current season's crops and to select and settle standard samples and standard export samples for various grades of Western grain.

The Eastern Committee met in Toronto on August 23, 1957 and November 21, 1957, to establish standard samples for statutory grades of Eastern grown grain.

In both divisions, continued use of previous standard samples was authorized in certain cases where suitable samples for established grades were not available.

# Inspection of Grain

The 1957 crop of Red Spring Wheat in the three prairie provinces, particularly in the southern regions, suffered from severe drouth reducing the yield of bushels per acre. This wheat graded no higher than No. 3 Manitoba Northern.

In the central and northern areas all cereal grains were somewhat better, higher in weight per bushel and yield. Unfortunately considerable rain occurred during the third week in August, resulting in lower grades on account of mildew

that took place after the grain had been swathed. Barley and oats also were degraded on this account.

A larger acreage of Rapeseed was seeded, but owing to drouth the yield was sharply reduced, however, grades were maintained as Canada Rapeseed, and No. 2 Canada Rapeseed.

Flaxseed on the whole is far below an average crop owing to the disease "Aster Yellow" that reduced the yield with lower weight per bushel.

The Tame Mustard Seed acreage in southern Alberta, mostly of the oriental variety, was sharply reduced with the yield per acre reported lower than in 1956, but top grades were maintained.

Safflower Seed was grown in volume for the first year in southern Alberta with the result the Western Grain Standards Committee has established commercial grades for this seed effective August 1, 1958.

#### Research

Information on the quality of 1957 crops of spring wheat, durum wheat, barley and oil seeds was published early in the fall in two protein maps and four crop bulletins, and was also presented at two meetings of the Committee on Western Grain Standards. A new quarterly bulletin on the quality of durum wheat cargoes exported from Canada was started as a companion to the corresponding bulletin on bread wheats. Steady demand for these bulletins shows that they are useful to overseas customers for Canadian wheats. Studies of the qualities of grain at various stages of marketing were also continued throughout the year.

The Laboratory has worked in close co-operation with the Inspection Branch to provide information and services required in settling grading problems. Studies were made of the quality of Standard and standard export samples and of samples of current crops on which laboratory tests were requested. Moisture testing and equipment in the Board's inspection offices was supervised regularly, and C.A.E. electrical moisture meters were installed in ten of the offices. Requests for services to the Canadian Wheat Board, the Grain Division of the Department of Trade and Commerce, Commercial Counsellors and Trade Commissioners in importing countries, and other government agencies continued to increase. As in previous years the Laboratory took a major part in studies, sponsored by the Associate Committee on Grain Research, of the quality of varieties developed by Canadian plant breeders. An active program of applied and basic research was maintained throughout the year.

The first award of the National Research Council Postdoctorate Fellowship, tenable in the Board's Laboratory, was made to Professor Hiroshi Matsumoto of Osaka Women's University, Japan; he arrived last August and will spend a year working in the Basic Wheat Research Section. Dr. Walter Bushuk was awarded a National Research Council Overseas Fellowship and one of the two Rutherford Memorial Fellowships offered each year by the Royal Society of Canada; he was granted leave of absence for one year at the Centre des Recherches sur les Macromolecules at Strasbourg, France. During the year, three members of the staff went abroad to study problems relating to the utilization of Canadian grain in various markets. Dr. Irvine was a member of a mission to Japan in the spring, and returned through Europe. Dr. Meredith attended the European Brewery Congress and made other visits relating to barley utilization. In the fall, Dr. Anderson visited Scandinavia and the principal European markets for wheat.

Steady progress has been made in the expansion of the Laboratory mentioned in last year's report. Additional space has been obtained on the ground floor for enlargement of the milling and baking section and for consolidation of all routine studies in one area. By the end of the year, the new sample room and laboratory for routine analysis were occupied, and remaining changes will be completed within a few months.

# Weighing of Grain

The Weighing Branch of the Board, in addition to providing the usual weighing services, investigated complaints received by the Board on vessel and car out-turn shortages in an effort to determine the cause and where possible assign the liability. Scales at licensed terminal and eastern elevators were inspected periodically by the Board's scale inspector. Additional scale inspections were made at any of these elevators where the Board felt that reported out-turns were particularly unsatisfactory. During the latter part of the year, the Weighing Branch made a special examination and survey at all terminal elevators and at mill elevators receiving weighing services to determine the condition and general efficiency of equipment used in the receiving, weighing and shipping of grain. Details of the work of this Branch are given in Appendix F.

# Weighover of Stocks, Terminal and Eastern Elevators

In accordance with the provisions of sections 139 and 140 of the Canada Grain Act, members of the Board's Weighing and Inspection staffs weighed over 30 terminal and 21 eastern elevators during the 1956-57 crop year.

Deferments into the 1957-58 crop year were made at 11 terminal elevators at the Lakehead, 5 terminal elevators at other points and at 9 eastern elevators. It was found necessary to grant these deferments to avoid temporarily halting the operations of elevators concerned with the movement of grain for export commitments. However, it was possible to carry out ten of these deferred weighovers before the end of December, 1957.

Tables G-12 to G-16 of Appendix G contain the results of 51 weighovers carried out in the 1956-57 crop year.

# Terminal and Eastern Complaints

During 1957, the Board directed the investigation of 43 complaints regarding the handling of grain at terminal elevators and shipments to Eastern Canada. All but 3 of these complaints related to reports of outturn shortages including 21 on vessel shipments from Fort William and Port Arthur to Eastern Canada and the U.S.A., 17 on vessel shipments between licensed eastern elevators and 2 on carlot shipments unloaded at Fort William and Port Arthur.

These complaints were disposed of as follows:

	Weight	Miscel- laneous
No cause of reported discrepancy found	37	_
No grounds for complaint	1	2
Settlement effected	1	_
Complaint withdrawn	_	1
Complaint withdrawn Not yet disposed of	1	_
Totals	40	3

# Complaints on Export Shipments

The Board and its officials handled a total of 55 complaints relating to overseas shipments. Of these, 37 complaints concerned outturn weights at overseas destinations and the remaining 18 concerned the quality of grain cargoes.

Disposition of these complaints was as follows:

	Quality	Weight
No cause of reported discrepancy found	_	27
No grounds for complaint	18	
Settlement effected.		4
Not yet disposed of	_	6
Totals	18	37

#### Statistics

Statistics relating to Canadian grain movement collected and compiled by the Board's Statistics Branch are presented in Appendix G of this Report.

#### Information Program

Early in 1957, the Board of Grain Commissioners purchased a mobile unit consisting of a one-ton truck (tractor) and a 23-foot semi-trailer and prepared a display and installed it in the trailer.

The main feature of the Exhibit is a display of 22 of the main grades of grain in open containers so that farmers can handle and compare the different grades. Samples of fifty additional grades in plastic containers are carried in a cabinet to enable the Inspector in charge to illustrate almost any grade that the visitor might be interested in.

Coloured photographs illustrate the various phases of the Board's operations and a separate panel of coloured photographs illustrates the types of wheat kernel damage, i.e., frost, immaturity, heat, insect, etc. These, together with pictures of loaves of bread baked from wheat containing the different types of damaged grain, are attached to the walls of the trailer. Murals painted on the outside of the trailer illustrate harvesting operations and pictures of country and terminal elevators.

A map showing the location and capacity of licensed country elevators forms a backdrop for a display of milling fractions and a display of equipment used in grading grain. Posters outlining the organization of the Board and the rights and privileges of the farmer are tacked to the walls.

A portable motor generator supplies electric power for a battery of fluorescent lights, so that the exhibit is not dependent upon an outside supply of power.

A large educational Exhibit prepared by the Exhibition Branch of the Department of Trade and Commerce in 1953, has been shown at nearly all Class "A" and "B" Exhibitions in Western Canada. It has therefore nearly fulfilled its purpose and was used on only three occasions during the year.

This exhibit outlines the organization of the Board of Grain Commissioners with special reference to the provisions of the Canada Grain Act, which affect the farmer. Coloured transparencies illustrate the work of Inspection, Weighing and Research Branches. Average samples of the various grades are also displayed.

An Assistant Commissioner and one or more Grain Inspectors were in charge of the exhibits to answer farmer's questions about the work of the Board or specific questions on grading. Both displays were well patronized and many questions on grain grading and handling were answered to the satisfaction of the farmers and visitors.

The motion picture, "Grain Handling in Canada" was shown at a number of meetings and short courses and to several groups of visitors from foreign countries, during the year. This film is in colour and outlines the work of the Board of Grain Commissioners in supervising the handling of grain from the time it leaves the farmer's hands at the country elevator until it is aboard ship for export. It was taken by the National Film Board and is available through their libraries.

Visitors to the Board Office included a group of Cereal Chemists from The Netherlands, Belgium and Switzerland; a Barley Mission from the United Kingdom; eight Agricultural Experts from Russia; a Milling Mission from Germany; an Agricultural Delegation from Romania; groups of Agriculturalists from Turkey, Pakistan, Burma and Austria.

Other visitors included Trade Commissioners from the United Kingdom, Australia, Germany, Japan, Belgian Congo, Belgium, India, Portugal and Colombia.

After meeting with members of the Board, the visitors were shown through the various Branches by departmental officials who outlined and demonstrated the work of the Board.

Members of the Board and senior officials addressed the annual meetings of producer organizations and meetings of other organizations interested in agriculture in various parts of Canada.

#### Canadian Government Elevators

During the crop year 1956-57, receipts of grain at the Canadian Government Terminal Elevators operated by the Board at Moose Jaw, Saskatoon, Calgary, Edmonton, Lethbridge and Prince Rupert were 17.0 million bushels and shipments 18.7 million bushels as compared with 12.4 million and 14.3 million bushels respectively, in the previous crop year.

In the fiscal year 1956-57, revenues exceeded expenditures by \$659,137.

# Lake Freight Rates

The maximum rates authorized by the Board's Order No. 20 of September 28, 1954, as follows, remained in effect throughout the 1957 season of navigation:

	Wheat and Rye	Barley	Oats
(a) From: Fort William or Port Arthur, Ontario,		—cents—	
To: Georgian Bay Ports, Goderich, Sarnia and Walkerville	51/	51/4	5
Port Colborne	5½ 7½ 8 8 <sup>3</sup> ⁄ <sub>4</sub> 9	71/4	63/4 71/4 8 81/4
Toronto	834	81/4	8
Prescott	9	81/2	81/4
Direct or Transferred at Intermediate Ports	16	151/4	14

<sup>(</sup>b) For grain loaded during the month of December in any year these maximum rates are increased two cents (2c) per bushel to compensate for increased insurance rates.

The average rates charged during the season are given in Table 11 of Appendix G.

#### Prairie Farm Assistance Act

Under the provisions of Section 11 of the Prairie Farm Assistance Act, the Board continued to collect the one per centum levy on grain purchased by licensees under the Canada Grain Act. During the crop year 1956-57, the amount collected was \$6,205,862.54. Collections by the Board since the inception of the Prairie Farm Assistance Act to July31, 1957 total \$101,196,715.41.

# Organization and Personnel

Chief Commissioner R. W. Milner visited Great Britain and the Continent during the month of May, 1957, in connection with various matters relating to the Board's work.

The Director of Administrative Services, John Rayner, returned to duty after one year's leave of absence during which he served in Turkey with the Food and Agriculture Organization of the United Nations.

Dr. J. A. Anderson, Chief Chemist, was presented with the Thomas Burr Osborne Medal by the American Association of Cereal Chemists.

Dr. H. E. Grav of the Department of Agriculture was transferred to the staff of the Board to assume full time duties in the control of insect infestation in grain elevators.

P. J. Marples, Chairman of the Grain Appeal Tribunal at Calgary, retired on account of age after 48 years service and he was succeeded by R. E. Forrester, Chairman of the Grain Appeal Tribunal, Edmonton. A. M. Creighton, Grain Inspector in Charge at Edmonton was appointed as Chairman of the Grain Appeal Tribunal at Edmonton. J. H. McLean, Grain Inspector in Charge at Moose Jaw assumed the duties vacated by Mr. Creighton. H. A. Munro succeeded Mr. McLean at Moose Jaw.

At December 31, 1957, the Board's staff totalled 935, an increase of 7 over 1956. The staff of the Canadian Government Elevators numbered 211 including 33 casuals. This is a decrease of 11 during the year.

A chart of the Board's organization will be found immediately following.

# Expenditure and Revenue

Total expenditure and accrued revenue of the Board, exclusive of the Canadian Government Elevators, for the fiscal year 1956-57 compared with 1955-56 was as follows:

	1956-57	1955-56
Expenditure	\$4,084,163.00	\$3,616,657.78
Revenue	3,038,945.00	2,330,380.66

Expenditure for the nine months of the 1957-58 fiscal year to December 31. 1957 totalled \$2,930,732 as against \$3,070,293 for the comparable period during 1956-57. Cash revenue for the same nine-month period amounted to \$1.946.092 as compared with \$2,274,201 in the previous year.

Attached hereto is a series of Appendices which outline in greater detail the work of the Board's Branches.

Respectfully submitted,

R. W. MILNER, Chief Commissioner

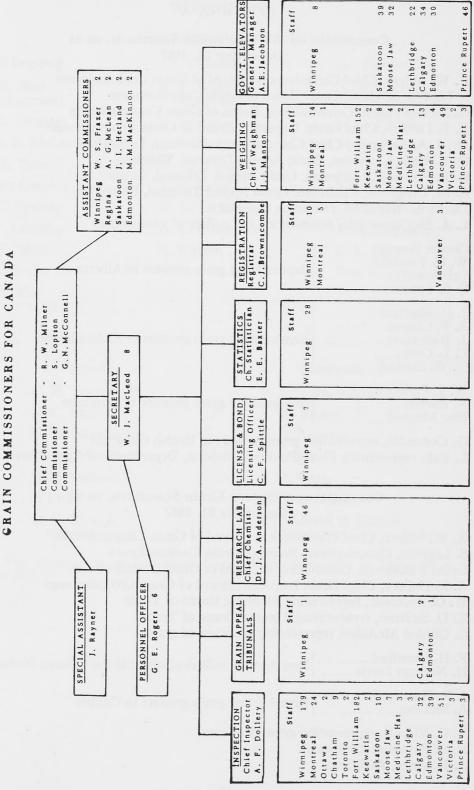
> S. LOPTSON, Commissioner

GEO. N. McCONNELL, W. J. MacLEOD, Commissioner

Secretary

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BOARD OF



#### APPENDIX A

# Committee on Western Grain Standards, as at December 31, 1957

- R. W. Milner, Chief Commissioner, Board of Grain Commissioners
- S. Loptson, Commissioner, Board of Grain Commissioners
- G. N. McConnell, Commissioner, Board of Grain Commissioners
- A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
- Dr. J. A. Anderson, Chief Chemist, Grain Research Laboratory
- D. E. Ross, Chairman, Grain Appeal Tribunal, Winnipeg
- R. E. Forrester, Chairman, Grain Appeal Tribunal, Calgary
- A. M. Creighton, Chairman, Grain Appeal Tribunal, Edmonton
- Dr. D. G. Hamilton, Dominion Cerealist

Coorgo Ronnott

L. A. McCorquodale, representing the millers of wheat flour

Uri Powell	
J. H. Harrison A. P. Gleave J. Wellbelove L. L. Gray N. W. Strelioff  A. P. Gleave Representing grain growers in Saskatchewa	an
W. J. Parker R. Barrett Ray Mitchell Ray Mitchell Representing grain growers in Manitoba	

- G. Constable, representing grain growers in British Columbia
- L. Bell, representing Plant Products Division, Department of Agriculture

# Committee on Eastern Grain Standards, as at December 31, 1957

- R. W. Milner, Chief Commissioner, Board of Grain Commissioners
- S. Loptson, Commissioner, Board of Grain Commissioners
- G. N. McConnell, Commissioner, Board of Grain Commissioners
- A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
- W. G. Thomson, representing Montreal Board of Trade
- E. D. Sullivan, representing Toronto Board of Trade
- C. Gordon McAuley, representing exporters of grain

- G. C. Nichols, representing growers of corn
- E. B. Paterson, Additional
- A. Bowman, Additional

# APPENDIX B

# Grain Appeal Tribunals

Winnipeg	Calgary	Edmonton
D. E. Ross (Chairman)	R. E. Forrester (Chairman)	A. M. Creighton (Chairman)
E. A. Sangster	B. Jenkins	C. C. Young
Wm. E. McLeod	J. Tranter	M. G. Wood
G. A. Turner	W. M. Pringle	J. F. Schofield
James Gregory	A. E. Jones	T. Stickney
R. C. Sproule	W. G. McLeod	D. G. MacKeracher
J. F. Lazenby	G. C. Arbuthnott	H. A. Haggarty
D. K. Mills	A. Watson	C. E. Sage
G. I. Rocan	G. R. Deeton	Ross Saunders
N Kawka		

(Secretary)

Toronto	Montreal
C. H. Coatsworth	P. J. Smith (Chairman)
R. C. Pratt	A. W. Brown
C. W. Heimbecker	E. B. Paterson
W. A. Robertson	J. A. Byrne
E. D. Sullivan	J. M. Vittie
J. Elder	G. D. Robinson
D. C. Kay, Jr. (Secretary)	Mrs. Muriel B. Hunter (Secretary)

For information on Appeals of Carlot Inspections refer to Appendix E, Table E-7.

#### APPENDIX C

#### Licence and Bonding Branch

C. F. SPITTLE, Licensing Officer

Licences are issued by the Board under the provisions of Section 7 of the Canada Grain Act which section also provides that every applicant for a licence shall furnish security by bond or otherwise for the due performance by the licensee of all obligations imposed upon his by the Act.

The Act provides that no railway company or vessel shall received any Western grain from any elevator or discharge any such grain in any elevator unless such elevator is licensed.

The Act also provides that, except for contracts for the purchas of grain the consideration payable under which is to be paid in full cash at the time of the making thereof or contracts for the purchase grain made on the premises of a recognized grain exchange by through brokers who are members of such exchange, no person in the Western division may make any contract for the purchase of Wester grain by reference to any grade name nor act on behalf of any other person in making such contract on a commission basis, unless he licensed under the Canada Grain Act as a grain dealer, track buyer grain commission merchant.

During the crop year 1956-57, 5,540 licences were issued to 109 firms are individuals to handle grain under the Canada Grain Act, or fifteen less than the previous crop year. In addition, country elevator licensees were authorize to use 417 special annexes, comprising flour sheds, coal sheds, skating rinks are other buildings.

On July 31, 1957, with 5,468 elevator licences in force and 403 buildin authorized for supplementary storage, the total licensed storage capacity w 613,160,260 bushels in elevators, and 15,142,090 bushels in special annexes country elevators. In addition, 50 Track Buyers', Commission Merchant and Grain Dealers' licences were also in force. The following table gives comparative statement of numbers and classes of licences in force and storage capacity:

Kind of Licence		s in force y 31	Licensed storage capacity July 31		
Killd of Licence	1957	1956	1957	1956	
Country Elevators Special Annexes to Country Elevators Terminals and Mill Elevators Eastern Elevators Track Buyers, Commission Merchants	5,360 *, 78 30	5,378 * 77 30	360,886,950 15,142,090 158,171,010 94,102,300	353,884,150 14,518,640 154,093,810 92,182,300	
and Grain Dealers	50	53	†	†	
Totals	5,518	5,538	628,302,350	614,678,900	

<sup>\*493</sup> buildings at July 31, 1957, and 402 buildings at July 31, 1956.

During the crop year, twenty-two elevator licences were cancelled, one account of licensee ceasing operation, three destroyed by fire, ten dismantled licensees, and eight converted into annexes. The authorities covering fourted special annexes were also cancelled.

<sup>†</sup>These licences do not cover grain storage facilities.

Seventy country elevator licences were suspended by the Board for varying periods during rehabilitation and reconstruction of buildings, and one for infraction of the Act. Sixty-seven of these were subsequently reinstated, one was cancelled and three were still under suspension at July 31, 1957.

Guarantee bonds in the amount of \$29,972,836.50 executed by fifteen approved surety companies were deposited with the Board as security under Section 79 of the Canada Grain Act to cover operations of licensees during 1956-57. Three licensees deposited negotiable Government bonds with a par value of \$8,500 in lieu of furnishing the usual form of surety bonds.

At December 1, 1957, at which date essentially all licences were issued for the 1957-58 crop year, there were 5,461 elevator licences in force. In addition, 377 buildings other than elevators were authorized for supplementary storage. The total licensed storage capacity as at December 1, 1957, was 617,239,060 bushels in elevators and 14,952,690 bushels in special annexes, or a total increase of 10,014,050 bushels since December 1, 1956. The total storage capacity by provinces is: Manitoba, 59.7 million; Saskatchewan, 214.3; Alberta, 141.6; British Columbia 26.6; Ontario, 153.1; and Quebec and the Maritimes, 36.9 million bushels.

Table C-1.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st each year for the Past Five Years

Kind of Licence	1957	1956	1955	1954	1953		
	Number of Licences						
Public Country Elevator. Private Country Elevator. Mill Elevator. Public Terminal Elevator. Semi-Public Terminal Elevator. Private Terminal Elevator. Eastern Elevator. Track Buyer. Commission Merchant. Grain Dealer.  Totals.	5,343 10 33 40 5 30 21 23 5	5,354 9 32 5 34 5 30 21 23 5	5,369 10 33 5 35 5 30 21 25 7	5,352 10 36 6 34 7 29 21 25 8	5,326 10 40 6 35 6 29 21 26 9		
		Lic	ENSED CAPA	CITY			
		tho	usands of bu	ishels			
Public Country Elevator Special Annexes Private Country Elevator Mill Elevator Public Terminal Elevator Semi-Public Terminal Elevator Private Terminal Elevator Eastern Elevator	364,661 14,953 369 13,513  137,524 7,070 94,102	356,263 15,080 337 13,451 17,100 118,774 7,070 94,102	343,953 8,522 349 13,525 17,100 116,624 7,070 92,182	332,454 5,369 349 13,429 18,350 112,873 7,295 90,845	318,224 4,411 349 13,495 18,350 114,523 7,220 84,929		
Totals	632,192	622,177	599,325	580,964	561,501		

Table C-2.—Licensed Elevators and Storage as at December 1, 1957

Kind of Elevator	Ontario	Mani- toba	Saskat- chewan	Alberta	British Colum- bia	Quebec and Mari- times	Totals	
	Number of Elevators							
Public Country Private Country Mill. Public Terminal Semi-Public Terminal Private Terminal Eastern	$     \begin{array}{r}       2 \\       \hline       3 \\       \hline       24 \\       2 \\       18     \end{array} $	697 3 7 — 2 2	2,921 2 6 - 2 -	1,706 5 10 - 3 1	$\frac{17}{7}$		5,343 10 33 	
Totals	49	711	2,931	1,725	33	12	5,461	
	STORAGE CAPACITY							
			thous	ands of bu	ishels			
Public Country Special Annexes† Private Country Mill Public Terminal Semi-Public Terminal. Private Terminal Eastern Totals.	65 1,400 1,480 90,517 2,435 57,161 153,058	47,863 495 75 2,095 6,000 3,145 — 59,673	190,743 7,549 61 4,916 — 11,000 — 214,269	124,202 5,509 233 4,095 6,100 1,490 ————————————————————————————————————	1,788 	36,941	364,661 14,953 369 13,513 137,524 7,070 94,102 632,192	

†Off-site storage.

#### Collection of One Per Cent Levy

The collection during the crop year 1956-57 of the one per cent levy made by this office under provisions of the Prairie Farm Assistance Act is recorded at \$6,205,862.54, a decrease of \$34,038.23 from collections during the previous crop year.

Table C-3.—Amounts Collected and Grain Purchased under the One Per Cent Levy, Prairie Farm Assistance Act, Crop Year 1956-57

Fla	mie Faim Ass	sistance Act,	Crop rear 19	50-51	
Province	Wheat	Oats	Barley	Rye	Total
	\$	\$	\$	\$	\$
Manitoba Saskatchewan Alberta	507,732.59 2,915,981.87 1,241,482.94	126,356.85 186,722.64 113,837.30	224,004.29 480,772.20 365,203.94	6,479.84 24,862.43 12,337.15	864,573.57 3,608,339.14 1,732,861.33
Totals	4,665,197.40	426,916.79	1,069,980.43	43,679.42	6,205,774.04
Amount not allocated to provinces	.,				88.50 6,205,862.54
		G			
		the	ousands of bush	els	
Manitoba Saskatchewan Alberta	39,918 223,607 99,058	21,696 27,511 19,878	24,207 53,818 42,949	637 2,572 1,248	86,458 307,508 163,133
Totals	362,583	69,085	120,974	4,457	557,099

#### APPENDIX D

#### Registration Branch

C. J. Brownscombe, Registrar

Section 127 of the Canada Grain Act requires the operators or managers of Public terminal, Semi-Public terminal and Eastern Elevators to issue warehouse receipts for all grain taken into store. Regulations No. 1 and No. 2 made by the Board under the provisions of Section 15 (22) of the Canada Grain Act require that all such warehouse receipts be registered with the Board as to grade and quantity at the time of issue and that these warehouse receipts be surrendered to the Board for registration for cancellation when the grain which they represent has been shipped out.

During the Crop Year 1956-57, registration service was provided for licensees of 5 public terminal elevators, 35 semi-public terminal elevators and 30 eastern elevators at the offices maintained by the Board at Montreal, Winnipeg and Vancouver.

Table D-1 of this appendix presents the total bushels, by grains, for which warehouse receipts were registered against unloads of grain and registered for cancellation against shipments of grain together with the averages of these handlings for the past ten years for comparison. In addition to these handlings, service was provided to licensees in the Western Division for the daily registration and registration for cancellation of splits, consolidations, grade adjustments and re-issue of warehouse receipts to facilitate the handling of grain and this work remained at normal levels throughout the crop year.

Records were maintained for each licensee in both the Eastern and Western Divisions, by grade, showing the total quantities registered, registered for cancellation or still outstanding daily, while a separate series of records was maintained to provide the full history of registration and cancellation particulars for all warehouse receipts issued by these licensees. Certified statements of outstanding warehouse receipt grade totals and of handlings for the non-mixing grades of wheat were issued as required for use in connection with the annual weighover of stocks of grain as carried out by Board officials at all terminal and eastern elevators.

The total registrations and registrations for cancellation of all grains for elevators in the Western Division show increases of 45.0 million and 14.0 million bushels respectively over those of the previous crop year and 61.0 million and 45.0 million bushels increases respectively, over those of the ten-year average. While the total bushels registered and registered for cancellation for elevators in the Eastern Division show a decline in comparison to similar handlings for the previous crop year, they show an increase of 44.0 million and 32.0 million bushels respectively, over those of the ten-year average.

Fees for registration services were charged at the rate of 4 cents a thousand bushels for registration and for registration for cancellation in the Western Division, and one cent a thousand bushels for similar service in the Eastern Division. The overall increase in the volume of handlings for registration purposes as shown for the combined Eastern and Western Divisions is reflected in the total fees collected for registration service of \$50,149.67 as compared to the ten-year average of \$45,155.86.

Table D-1.—Warehouse Receipt Registrations for Primary and Transfer Receipts and Shipments at Public and Semi-Public Terminal Elevators and Eastern Elevators, by Area and Grain, Crop Year 1956-57 and 10-year Average.

Area	Croin	Crop Ye	ar 1956-57	10-Year Av to 19	erage, 1946-47 955-56
Arca	Grain	Registered	Registered for Cancellation	Registered	Registered for Cancellation
			—thousands	of bushels—	SAM BOLLIN
WESTERN DIVISION— Winnipeg, including Lakehead and Churchill	Wheat Oats Barley Flax. Rye Mixed Grain Corn. Other Grains	212,094 49,174 71,431 22,611 6,600 477 —————————————————————————————————	191,096 52,303 70,040 21,419 6,739 472 ———————————————————————————————————	199,022 69,106 67,247 7,412 11,002 963 41 84	196,378 71,063 66,354 7,285 10,862 635 52 85
Calgary, Edmonton, Lethbridge, Moose Jaw and Saskatoon	Wheat Oats Barley Flax Rye Mixed Grain Corn Other Grains	4,048 161 1,194 629 28 — 15 3,393	5,168 206 1,285 626 31 35 8 2,831	5,234 498 1,623 216 40 5 16 333	3,932 589 1,708 221 37 25 12 293
VANCOUVER AND PRINCE RUPERT AREA—	Wheat Oats Barley Flax Rye Mixed Grain Corn Other Grains	107,234 560 30,212 3,523 1 3,208	105,221 1,809 31,585 3,127 46 3,197	81,141 2,686 8,660 209 70 49 284 104	80,182 3,724 8,446 220 66 53 283 104
WESTERN DIVISION— All Points—	Wheat Oats Barley Flax Rye Mixed Grain Corn Other Grains	323,376 49,895 102,837 26,763 6,628 478 15 6,976	301,485 54,318 102,910 25,172 6,770 553 8 6,474	285,397 72,290 77,530 7,837 11,112 1,017 341 521	280,492 75,376 76,508 7,726 10,965 713 347 482
Totals—All Grains		516,968	497,690	456,045	452,609
Eastern Division—	Wheat. Oats. Barley. Flax. Rye. Mixed Grain. Corn. Screenings. Peas. Soybeans. Buckwheat. Other Grains.	294,474 48,334 81,498 37,418 2,866 470 11,103 2,826 241 5,234 298 1,804	277,531 48,847 81,444 37,153 3,199 477 10,876 2,936 2,936 241 5,079 189 1,793	288,833 44,134 68,580 11,611 8,910 512 16,519 1,030 48 1,977 279 98	284,654 44,475 68,357 11,626 8,846 491 16,578 1,015 54 1,975 280 97
Totals—All Grains		486,566	469,765	442,531	438,448

#### APPENDIX E

#### **Inspection Branch**

A. F. Dollery, Chief Grain Inspector

Under Section 32 of the Canada Grain Act, the Grain Inspection Branch in the Western Division samples and grades all grain enroute from country points to terminal and mill elevators or other destinations, at the primary inspection points of Winnipeg, Edmonton and Calgary. All grain is also sampled and graded on delivery to terminal or mill elevators at Saskatoon, Moose Jaw, Medicine Hat and Lethbridge, if such grain has not passed through an inspection point. In addition, inspectors resample and check primary grading of all grain unloaded into terminal and mill elevators at the Lakehead, Churchill, Pacific Coast and interior points, as well as sampling and grading all grain shipped from terminal or mill elevators.

In the Eastern Division, sampling and grading service is provided on request at Chatham and Toronto for Eastern grown grain. At Montreal, Quebec, Sorel, Three Rivers, St. John and Halifax, grain loaded into vessels for export is sampled and the grades are checked. Grades of all grain in store in all terminal and eastern elevators weighed over during the crop year are verified by Inspection Branch officials.

In the crop year ended July 31, 1957, inspections of Western grain at primary points totalled 298,635 carlots compared with 285,521 carlots in the previous crop year. This total is 3.6 per cent higher than the average for the past ten years.

The predominant grade in Red Spring Wheat was No. 3 Manitoba Northern with 29.1 per cent of total wheat inspections. This was mainly due to several heavy frosts experienced in the beginning of the crop year. With 28.8 per cent grading No. 2 Manitoba Northern and 1.3 per cent grading No. 1 Manitoba Northern, the first three grades totalled 59.2 per cent as compared with 65.2 per cent in the previous crop year. Of the Durum Wheat inspected, 46.2 per cent graded No. 4 C.W. No. 2 C.W. showed a percentage of 4.9 per cent—No. 3 C.W. 15.8 per cent—Extra No. 4 C.W. 19.9 per cent—No. 5 C.W. 9.6 per cent and No. 6 C.W. 1.1 per cent, of total Amber Durum inspections.

In this year's crop 48.1 per cent of the Oats inspected graded No. 1 Feed compared with 54.4 per cent in the previous year. In the higher grades of No. 3 C.W. and Extra No. 1 Feed, the percentages were 24.3 per cent and 20.8 per cent respectively, as compared with 21.0 per cent and 13.1 per cent respectively in the previous year.

The predominant grade in Barley was No. 1 Feed with 31.4 per cent, followed by 3 C.W. 6 Row with 28.2 per cent and Extra 2 Feed with 14.1 per cent. In Rye 52.3 per cent graded 3 C.W. and 22.2 per cent 2 C.W., as compared to the previous crop year, 46.6 per cent and 32.3 per cent respectively. The quality of Flax was good this year with 69.2 per cent grading 1 C.W. and 26.6 per cent 2 C.W., or 95.8 per cent of total flax inspections as compared to the previous year of 80.8 per cent and 15.9 per cent respectively.

Mustard seed carlots inspected this crop year were much higher with 580 carlots as compared to 18 the previous year. The main grade in Mustard Seed was No. 1 Canada Western Oriental with 82.1 per cent.

This crop year showed a vast increase in acreage of Rapeseed with 2,375 carlots being inspected as compared to 642 carlots in the previous crop year.

There was a noticeable increase this year in the number of two pound samples "subject to grade and dockage" submitted. Total inspected being 30,363 as compared to 15,575 the previous year.

Grain inspections on loadings to vessels at the Lakehead, Pacific Coast and Churchill terminal elevators totalled 475 million bushels as compared with 452 million bushels in the previous crop year. Export cargoes shipped from St. Lawrence and Atlantic ports, totalling 145 million bushels, were sampled and checked for grade at loading as compared with 191 million bushels in the previous crop year. Cargoes received at Montreal totalling 82 millions were also sampled and grades checked, as compared with 85 million in the previous crop year.

Eastern grown grain sampled and inspected in carlots totalled 8,143 cars of which 7,335 cars were handled by the Chatham office. In the previous crop year the totals were 11,752 and 10,861 respectively. Wheat accounted for 3,773 cars.

#### WESTERN DIVISION

Table E-1.—Primary Carlot Inspections by Grains, Crop Year 1956-57, compared with 1955-56 and 10-year Average 1946-47 to 1955-56

	10-Year Average	1956-57	1955-56	10-Year Average	1956-57	1955-56
		Carlots		Pe	rcent of to	tal
Wheat	194.921	198,796	190,537	67.6	66.5	66.7
Oats.	34,791	20,868	21,844	12.1	7.0	7.7
Barley	45,174	55,168	54,625	15.7	18.5	19.1
Nye	6,321	3,339	6,630	2.2	1.1	2.3
Flaxseed	5,505	16,257	10,248	1.9	5.4	3.6
Mixed Grain	580	241	243	0.2	0.1	0.1
Corn	151	182	212	0.1	0.1	0.1
Buckwheat	63	122	143	*	*	0.1
Screenings	457	471	322	0.2	0.2	0.1
Rapeseed	98	2,375	642	*	0.8	0.2
Sunflower Seeds.	1			*		
Peas.	85	234	57	*	0.1	sk:
Mustard Seed	2	580	18	*	0.2	*
Sample Grain	-	2			*	
Totals	288,149	298,635	285,521	100.0	100.0	100.0

<sup>\*</sup>Less than 0.05%

Table E-2.—Primary Carlot Inspections by Points, Crop Year 1956-57, compared with 1955-56 and 10-year Average 1946-47 to 1955-56

	10-Year Average	1956-57	1955-56	10-Year Average	1956-57	1955-56
		Carlots		Percent of total		
Winnipeg Calgary Edmonton Moose Jaw Saskatoon Lethbridge Medicine Hat Vancouver Churchill	201,036 35,792 29,887 4,789 6,910 129 3,074 1,837 4,695	188.149 46,993 39,526 4,454 7,304 628 1,796 585 9,200	185,714 40,971 34,944 4,503 7,780 28 2,275 508 8,798	69.8 12.4 10.4 1.7 2.4 * 1.1 0.6 1.6	63.1 15.7 13.2 1.5 2.4 0.2 0.6 0.2 3.1	65.0 14.3 12.2 1.6 2.7 * 0.8 0.2 3.2
Totals	288,149	298,635	285,521	100.0	100.0	100.0

<sup>\*</sup>Less than 0.05%

Table E-3.—Primary Carlot Inspections Crop Year 1956-57, by Grain and Grades

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Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Northern		1.3	
2 Manitoba Northern		28.8	
3 Manitoba Northern		29.1 13.9	
No. 4 Special		*	
No. 5	29,049	15.6	1 -
No. 5 Special	. 123	0.1	ED III - EE-AL
No. 6.		4.5 0.2	-
FeedSample		0.2	
Smutty		0.1	
Rejected		2.9	
Tough		3.3	
Damp		*	
Broken Red Spring		*	
Total Red Spring Wheat	-	100.0	93.5
2 Canada Western Garnet		1.8	
3 Canada Western Garnet		67.6	
4 Canada Western Garnet	. 14	5.0	
Smutty Canada Western Garnet	1	0.4	-
Rejected Canada Western Garnet Tough Canada Western Garnet	8 63	2.8 22.4	
Tough Canada Western Garnet	. 03	22.4	
Total Garnet Wheat	281	100.0	0.1
1 Canada Western Amber Durum		0.1	_
2 Canada Western Amber Durum		4.9	
3 Canada Western Amber Durum Extra 4 Canada Western Amber Durum		15.8 19.9	and had a
4 Canada Western Amber Durum.		46.2	2
5 Canada Western Amber Durum	1,076	9.6	
6 Canada Western Amber Durum		1.1	-
Smutty Canada Western Amber Durum	17	0.2	
Tough Canada Western Amber Durum	116	1.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Damp Canada Western Amber Durum	. 5	*	
Sample Canada Western Amber Durum	. 20	0.2	
Total Amber Durum Wheat	11,157	100.0	5.6
2 Canada Western Soft White Spring	. 38	19.1	
3 Canada Western Soft White Spring	94	47.2	
4 Canada Western Soft White Spring		32.7	
Tough Canada Western Soft White Spring		1.0	
Total Soft White Spring Wheat		100.0	0.1
1 Canada Western Mixed Wheat	. 12	10.3	-4
2 Canada Western Mixed Wheat		6.0	
3 Canada Western Mixed Wheat		29.3 21.6	
5 Canada Western Mixed Wheat	11	9.5	
6 Canada Western Mixed Wheat	. 17	14.7	
Smutty Canada Western Mixed Wheat	. 1	0.9	
Rejected Canada Western Mixed Wheat Tough Canada Western Mixed Wheat	5 4	4.3	····
4004			
Total Mixed Wheat	116	100.0	0.1

Table E-3.—Primary Carlot Inspections, Crop Year 1956-57, by Grain and Grade—

# Continued

Grade	Carlots	Percentage	Percentage of Total Whea Inspections
WHEAT—C	Concluded		
1 Alberta Red Winter. 2 Alberta Winter. 3 Alberta Winter. 4 Alberta Winter. Smutty Alberta Winter. Rejected Alberta Winter. Total Alberta Winter Wheat	714 250 61 10 30	16.5 56.0 19.6 4.8 0.8 2.3	0.6
Total All Wheats			100.0
Grade		Carlots	Percentage
OAT	rs		
2 Canada Western Extra 3 Canada Western 3 Canada Western Extra 1 Feed 1 Feed 2 Feed 3 Feed Mixed Feed Oats Rejected Oats Sample Oats Tough Damp Mixed Feed Oats Groats		426 5,077 4,331 10,032 581 100 4 31 34 218	0.1 2.0 24.3 20.8 48.1 2.8 0.5 * 0.2 0.2 1.0 *
Total Oats		20,868	100.0
BARL	EY		
2 Canada Western Six Row 3 Canada Western Six Row 4 Canada Western Six Row 1 Canada Western Two Row 2 Canada Western Two Row 3 Canada Western Two Row 1 Feed Extra 2 Feed 2 Feed 3 Feed Rejected Sample Tough Damp		2,001 203 4,200 17,263 7,798 3,344 1,147 187	1.6 28.2 3.6 * 0.4 7.6 31.4 14.1 6.1 2.1 0.3 0.1 4.5
Total Barley		55,168	100.0

Table E-3.—Primary Carlot Inspections, Crop Year 1956-57, by Grain and Grades—Cont'd

Grade	Carlots	Percentage
RYE		
1 Canada Western. 2 Canada Western. 3 Canada Western. 4 Canada Western. Ergoty Rye	740 1,749 403 337 21 3 79 1 4	0.1 22.2 52.3 12.1 10.1 0.6 0.1 2.4 * 0.1
FLAXSEED		
1 Canada Western 2 Canada Western 3 Canada Western 4 Canada Western Rejected Sample Tough Damp	4,321 457 7 17 25 153	69.2 26.6 2.8 * 0.1 0.2 0.9 0.2
Total Flaxseed	16,257	100.0
MIXED GRAIN		
1 Canada Western	22 95 3 16 53 9 8	14.5 9.1 39.5 1.2 6.6 22.0 3.7 3.4
Total Mixed Grain	241	100.0
CORN		
1 Canada Western Yellow 2 Canada Western Yellow 3 Canada Western Yellow 4 Canada Western Yellow 5 Canada Western Yellow Tough Others U.S.A. Origin	37 19 8 2 5	5.5 20.3 10.4 4.4 1.1 2.8 0.6 54.9
Total Corn	182	100.0

Table E-3.—Primary Carlot Inspections, Crop Year 1956-57, by Grain and Grades—Cont'd

Grade	Carlots	Percentage
MUSTARD SEED		
Extra 1 Canada Western Yellow. 2 Canada Western Yellow. 1 Canada Western Oriental. 2 Canada Western Oriental. 3 Canada Western Oriental. 1 Canada Western Brown. 2 Canada Western Brown. 3 Canada Western Brown. Sample Canada Western Brown. Sample Canada Western Brown. U.S.A. Mustard Seed.	1 477 23 4 30 4 2 1 3 3 22 12	0.2 0.2 82.1 4.0 0.7 5.2 0.7 0.3 0.2 0.5 3.8 2.1
SCREENINGS		
1 Feed Uncleaned Refuse Sample	316 113	1.5 67.1 24.0 7.4
Total Screenings	471	100.0
Buckwheat	234 2,375	
Grand Total	298,635	_

<sup>\*</sup>Less than 0.05%

Table E-4.—Carlots of Tough, Damp and Straight Grain Inspected at Primary Inspection Points, Crop Year 1956-57

		iree, crop	1000 00				
Grain	Tough	Damp	Tough and Damp	Straight	Total		
Wheat Oats. Barley. Rye Flaxseed. Others.	6,407 218 2,490 79 153 14	46 3 17 1 26 8	6,453 221 2,507 80 179 22	192,343 20,647 52,661 3,259 16,078 4,185	198,796 20,868 55,168 3,339 16,257 4,207		
All Grains	9,361	101	9,462	289,173	298,635		
	PERCENTAGE OF TOTAL						
Wheat Oats Barley Rye Flaxseed Others	% 3.2 1.0 4.5 2.4 0.9 0.3	% * * * 0.2 0.2	% 3.2 1.1 4.5 2.4 1.1 0.5	% 96.8 98.9 95.4 97.6 98.9 99.5	% 100.0 100.0 100.0 100.0 100.0 100.0		
All Grains	3.1	*	3.2	96.8	100.0		

<sup>\*</sup>Less than 0.05%

Table E-5.—Number of Two Pound Samples "Subject to Grade and Dockage" Inspected Crop Year 1956-57 Compared with the Crop Year 1955-56

Point	1956-57	1955-56	
	Number of Samples		
Winnipeg Caigary Edmonton Moose Jaw Saskatoon Lethbridge Medicine Hat	23,183 2,148 1,913 228 1,184 1,647	11,110 1,271 1,079 66 748 1,246	
Medicine Hat.	60	55	
Totals	30,363	15,575	

Table E-6.—Carlots Re-inspected, Crop Year 1956-57

Point	In- spected	Re-in- spected	Un- changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
			Number of Carlots				
Winnipeg Calgary. Edmonton Saskatoon. Moose Jaw Medicine Hat Lethbridge. Vancouver Churchill.	188,149 46,993 39,526 7,304 4,454 1,796 628 585 9,200	13,150 4,406 5,902 324 351 76 — 16	5,378 1,758 2,524 295 323 42 ————————————————————————————————	3,682 1,330 1,363 28 26 23 — 3	276 83 39 2 9	303 176 283	3,511 1,059 1,693 1 ———————————————————————————————————
Totals	298,635	24,225	10,333	6,455	409	762	6,266
			Percentage	e of Total	Re-inspe	ctions	
Winnipeg	%     	% 100 100 100 100 100 100 100 100 100 10	% 40.9 39.9 42.7 91.1 92.0 55.3 — 81.2	% 28.0 30.2 23.1 8.6 7.4 30.3 — 18.8	% 2.1 1.9 0.7 — 0.6 11.8	2.3 4.0 4.8 — — —	%, 26.7 24.0 28.7 0.3 ———————————————————————————————————
Totals	_	100	42.7	26.6	1.7	3.1	25.9
		Percentage of Total Inspections					
Winnipeg Calgary Edmonton. Saskatoon. Moose Jaw Medicine Hat. Lethbridge. Vancouver. Churchill.	% 100 100 100 100 100 100 100 100 100 10	7.0 9.4 14.9 4.4 7.9 4.2 — 2.7	% 2.9 3.7 6.4 4.0 7.3 2.3 — 2.2	% 2.0 2.8 3.4 0.4 0.6 1.3 — 0.5	0.1 0.2 0.1 — 0.5	% 0.2 0.4 0.7 — —	% 1.9 2.3 4.3 — 0.1 — —
Totals	100	8.1	3.5	2.2	0.1	0.3	2.1

Table E-7.—Summary of Carlot Inspections Appealed, Crop Year 1956-57

Item	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as graded	684 45 — <b>729</b>	93.8 6.2 — 100.0	220 62 1 283	77.7 21.9 0.4 100.0	598 96 2 <b>696</b>	85.9 13.8 0.3	1,502 203 3 1,708	87.9 11.9 0.2
Total Cars Inspected							298,635 1,708 206	100.00 0.57 0.07

Table E-8.—Vessel Shipments Inspected, Crop Year 1956-57

Grain	Fort William and Port Arthur	Vancouver	Victoria	Prince Rupert	Churchil!	Total
7	bu.	bu.	bu.	bu.	bu.	bu.
Wheat Oats Barley Rye Flaxseed Buckwheat *Sample Grain *Screenings *Canada Rapeseed *Mustard Seed *U.S.A. Mustard Seed	171,357,190 47,728,441 72,481,270 5,872,794 13,689,845 162,717 219,328 4,189,426	102,882,125 527,895 22,556,631 2,438,195  1,340,220 1,111,665 66,907	1,199,669 ———————————————————————————————————	492,883 8,157,986  424 	16,250,319 101,200 ———————————————————————————————————	292,182,186 48,357,536 103.195,887 5,872,794 16,839,630 162,717 219,328 4,300,650 2,392,167 1,111,665
Totals	315,701,011	130,923,638	2,963,206	8,651,293	16,462,319	474,701,467

<sup>\*</sup>In bushels of 50 pounds.

Table E-9.—Carlot Shipments ex Terminal Elevators Inspected, Crop Year 1956-57

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Jaw
		Nu	mber of Carl	ots	
Wheat	644	1.980	566	230	1,087
Oats	271	2,124	25	120	121
Barley	321	1,303	729	35	49
Flaxseed	56	4.051	165	206	24
Rve	1	440	16		1
Mixed Grain	87		27	2	4
Corn	10				
Buckwheat	3	4			
Peas	71				
Rapeseed	4	110	98	397	
Screenings	356	5,240	238	140	110
Sample Grain		254			
Totals	1,824	15,506	1,864	1,130	1,396

Table E-9.—Carlot Shipments ex Terminal Elevators Inspected, Crop Year 1956-57—Cont'd

Grain	Saskatoon	Lethbridge	Medicine Hat	Vancouver, Victoria and Prince Rupert	Churchill
Wheat	1,632	542	13	549	
Oats	128		9	339	
Barley	29		-	214	
Flaxseed		19	171	8	
				1	
Rye Mixed Grain		1		18	
Corn			_		
Buckwheat			-		-
Peas					
Rapeseed	827			4	
Mustard Seed		1			
Screenings	689	1	3	1,663	8
Totals	3,320	564	196	2,796	8

## EASTERN DIVISION

Table E-10.—Carlot Inspections Eastern Grain, Crop Year 1956-57, by Grains and Points

Grain	Montrea!	Toronto	Chatham	Total	
Gram	Carlots				
Wheat		453	3,320	3,773	
Oats					
Barley		9	159	168	
Rye			30	30	
Buckwheat	1		17	18	
Corn	1	4	1,870	1,875	
Beans		-	259	259	
Soybeans		338	1,680	2.018	
Flaxseed		2		2	
Totals	2	806	7,335	8,143	

Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1956-57, by Grains, Grades and Points

EAT	Car	lots	
	25	555	580
	123	988	1,111
	12	149	161
		14	14
		9	9
		143	143
			146
			19
			23
	272	1,179	1,451
		2	2
			15
			12
	5		35
	1	42	49
	1	2	3
	453	3,320	3,773
		8 272	19     15          272     1,179     2           15           12           7     42          1     2

Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1956-57, by Grains, Grades and Points—Continued

Grade	Montreal	Toronto	Chatham	Total
		Car	rlots	211
В	ARLEY			
2 Canada Eastern Six Row. 3 Canada Eastern Six Row. 4 Canada Eastern. 5 Canada Eastern. 6 Canada Eastern. Tough Damp. Sample.		1 1 2 1 4	1 10 82 6 1 55 3 1	1 10 83 7 1 57 4 5
Totals, Barley		9	159	168
Control Control Control	RYE		Chardell-	
2 Canada Eastern			15 1 11 2 1	15 1 11 2 1
Totals, Rye			30	30
BUC	CKWHEAT			dalo'i
2 Canada Eastern			1 6 10	1 6 11
Totals, Buckwheat	1	- styr	17	18
	CORN			
Extra Dry 1 Canada Eastern Yellow.  1 Canada Eastern Yellow. Extra Dry 2 Canada Eastern Yellow. 2 Canada Eastern Yellow. Extra Dry 3 Canada Eastern Yellow. 3 Canada Eastern Yellow. Extra Dry 4 Canada Eastern Yellow. Extra Dry 5 Canada Eastern Yellow. Extra Dry 5 Canada Eastern Yellow. Extra Dry 5 Canada Eastern Yellow. Tough. Damp. Moist. Wet. Sample.		1	50 489 95 339 122 167 51 38 3 2 240 184 80 9	50 489 95 340 122 167 51 38 3 240 184 80 9
Totals, Corn	1	4	1,870	1,875

Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1956-57, by Grains, Grades and Points—Concluded

Grad	es and Poli	nts—Conciu	lueu		
Grade	entro(1	Montreal	Toronto	Chatham	Total
Glade			Car	lots	
	BEA	NS			u de la
1 Canada Eastern Pea 2 Canada Eastern Pea 3 Canada Eastern Pea 4 Canada Eastern Pea Tough				71 105 12 1 69 1	71 105 12 1 69 1
Totals, Beans		F (1 <u>032</u> )		259	259
Inns addict	SOYBE	EANS			
1 Canada Yellow. 2 Canada Yellow. 3 Canada Yellow. 4 Canada Yellow. 5 Canada Yellow. Tough Damp. Moist. Sample.			83 233 6 1 —————————————————————————————————	751 378 166 118 29 213 20 2 3	834 611 172 119 29 228 20 2 2
Totals, Soybeans			338	1,680	2,018
	FLAXS	SEED			1978
Tough	r   100 t 100	T COLUMN	2		2
Totals, Flaxseed			2		2
Totals, All Grains			806	7,335	8,143
Table E-12.—Cargo Ins	spections E	astern Gra	in, Crop Y	ear 1956-57	
Grain	St. John and Halifax	Montreal	Toronto	Chatham	Total
Wheat Corn Soybeans	bu. — 127,224	bu.  210,400	bu. 	bu. 852,112 1,326,621 1,309,597	bu. 852,112 1,326,621 1,984,692
Totals	127,224	210,400	337,471	3,488,330	4,163,425
Table E-12A.—Cargo Ins	spections, V	Western Gr	ain, Crop	Year 1956-5	57
Grain	St. John and Halifax	Montreal	Toronto	Chatham	Total
FlaxseedRapeseed	bu. 7,401,543	bu. 618,898 11,146	bu.	bu.	bu. 8,020,441 11,146
Totals	7,401,543	630,044		100	8,031,587
					1

Table E-13.—Inspections, Eastern Grain in Bins or Warehouses, Crop Year 1956-5

Grain	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.
OatsBuckwheat.	7,087 12,537			7,087 12,537
Beans			152,474	152,474
Totals	19,624		152,474	172,098

Table E-14.—Inward and Export Cargoes Sampled and Grade Checked, Crop Year 1956-57

	Montreal	Sorel	Three Rivers	Quebec	Halifax and St. John	Total
F	bu.	bu.	bu.	bu.	bu.	bu.
Eastern Grain Inward Export	1,889,681 1,328,806	_	=		342,607	1,889,681 1,671,413
WesternGrain Inward Export	77,881,954 85,200,540	112,707 13,136,257	11,601,522	10,685,864	21,517,667	77,994,661 142,141,850
U.S. GRAIN Inward Export	2,248,527 1,272,832	_	_		=	2,248,527 1,272,832
Totals	169,822,340	13,248,964	11,601,522	10,685,864	21,860,274	227,218,964

Table E-15.—Grain Sampled but not Inspected, Crop Year 1956-57

	Montreal	Toronto and Chatham	Sorel, Three Rivers and Quebec	Halifax and St. John	Total
EASTERN GRAIN Carlots Inward Cargoes Outward Cargoes Bin Lots (bu.)		12			34 82,330 156,239 484,539
Western Grain Carlots	2,998,835	333,960	5,722 1,053,733 88,882	966,027	66 315,763 5,018,595 568,115
U.S.A. Grain Carlots	49 1,554,245 412,968		 95,570		49 1,554,245 508,538
Totals—Cars—Bushels		333,960	1,243,907	966,027	8,688,364

### APPENDIX F

## Grain Weighing Branch

J. J. Manson, Chief Grain Weighman

Under the provisions of Sections 33 and 124 of the Canada Grain Act, all grain received at or shipped from licensed terminal elevators is weighed under the supervision of the Board's weighing staffs. Weighing services are also provided at licensed mill elevators.

During the Crop Year 1956-57, forty-five public, semi-public and private terminal elevators and twenty-eight mill elevators in the Western Division were serviced.

All scales and the equipment for transferring grain to scales on receipt and for shipment in all licensed terminal elevators and serviced mill elevators were regularly inspected during the crop year under the provisions of Section 92 of the Act. In accordance with the special arrangement with the Standards Branch of the Department of Trade and Commerce, all scales in licensed terminal and eastern elevators were inspected, verified and stamped by the Board's Scale Inspector acting as an inspector under the Weights and Measures Act. A semi-annual inspection was also made of all scales at terminal elevators to ascertain if scales were maintaining their accuracy. Special inspections were also made when any doubt arose as to the accuracy of any particular scale.

New installations of dust control and other elevator equipment in terminal and eastern elevators were inspected to ensure that such equipment did not affect the accuracy of the weighing of grain received at or shipped from these elevators.

During the crop year under review, 305,276 carlots of grain were weighed on receipt at terminal and mill elevators in the Western Division and of these car lots, 56,141 or 18.3% were reported leaking and 7,877 or 2.5% were without seals or had defective seals.

This Branch maintained a close checking of reported outturns at eastern elevators of cargoes loaded at Lakehead terminals and investigations were made in cases of reported excessive shortages with a view to assessing the liability in cases where such could be established.

Under provisions of Sections 139 and 140 of the Canada Grain Act, weighovers were conducted at thirty terminal elevators and at twenty-one eastern elevators. Results were submitted to the Board's Statistics Branch for comparison with outstanding warehouse receipts and preparation of official statements.

The following tables summarize the grain weighed and other information relating to the work of this Branch.

Table F-1.—Gross Quantities of All Grains Weighed at Terminal Elevators in the Western Division during 1956-57 Crop Year

Miscel- laneous	lbs.		91,530,723 114,069,539 52,500,090 —————————————————————————————————	422,413,292		720,182,204 275,525,104 57,924,780 7,354,100 6,069,371 13,857,230 50,657,640 815,50 2,838,820 113,215,820 4,323,300	1,252,029,889
Canadian Peas	pn.		3,302	3,302		3,302	3,302
Canadian Buckwheat	pn.		205,070	205,070		166,046	166,046
Canadian	pa.		15,070	15,070		8,820	8,820
Flaxseed	bu.		26,347,739 3,072,573 869,482 	31,041,925		21,774,473 2,454,188 711,591 301,382 301,025 27,930 3,218 15,913	25,589,720
Rye	pa.	RECEIPTS	6,780,120 	6,810,496	ENTS	6,737,285	6,770,207
Barley	bu.	RECE	80,389,194 22,464,424 1,250 8,215,368 1,129,476 63,546 1,968	112,327,495	SHIPMENTS	77,104,511 22,969,991 1,360 8,613,453 1,221,361 61,061 375 1,968	110,034,839
Oats	pa.		50,906,446 563,973 4,249 ————————————————————————————————————	51,670,684		52,930,425 1,778,906 30,160 101,200 5,889 124,872 75,505 18,851	55,065,808
Wheat	bu.		201,127,804 108,765,472 1,506,560 16,576,265 512,000 389,015 1,203,458 1,466,213 348,946	332,480,973		174,244,302 103,982,322 1,201,035 37,417 16,484,320 879,112 424,112 1,045,121 798,795 2,020,566 371,714	301,488,816
Point			Fort William-Port Arthur. Vancouver-New Westminster. Victoria Prince Rupert. Churchill Calgary Edmonton Lethbridge Moose Jaw Saskatoon North Transcona	Total Receipts		Fort William-Port Arthur. Vancouver-New Westminster. Victoria. Prince Rupert. Churchill Calgary. Edmonton Lethbridge. Moose Jaw. Saskatoon.	Total Shipments

Table F-2.—Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railways, for the Crop Year 1956-57

Destination	Cars L	eaking	Missing Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and YardsOther Points	20,623 6,852	20,670 7,996	1,971 1,370	3,188 1,348
Totals	27,475	28,666	3,341	4,536
Totals, both Railways	56,141		7,877	
Winnipeg Yards	1,191	1,613	858	980

Table F-3.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Years 1955-56 and 1956-57

	Nur	nber	Percentage of Total		
	1956-57	1955-56	1956-57	1955-56	
Cars Weighed In Inward Cars Leaking Inward Cars with Missing or Defective Seals Cars Weighed Out	305,276 56,141 7,877 30,171	293,489 54,349 6,923 32,615	100.0 18.3 2.5	100.0 18.5 2.4	

Table F-4.—Average Reported Outturn Shortages on Vessel Shipments of Grain from Fort William-Port Arthur to Canadian and United States Ports during the 1956-57 Crop Year.

Grain	Bushels Shipped	Shortage i	
		1956-57	1955-56
CANADIA	N PORTS		
Wheat	148,497,650 16,817,014	31.1 15.4 21.1	28.4 35.9
Oats	37,164,830 51,412,138 1,589,056	28.7 46.9	19.1 30.3 42.4
Flaxseed Buckwheat Mixed Grain (in lbs.)	13,557,206 121,313 3,259,154	21.3 51.1 .4 lbs.	29.3 44.1
Sample Grain (in lbs.)	8,680,897	per 1,000 lbs. .8 lbs.	1.1 lbs.
Screenings (in tons)	54,553	per 1,000 lbs. 1.1 lbs. per ton	per 1,000 lbs. 1.7 lbs. per ton
UNITED ST.	ATES PORTS		
Wheat Wheat	5,442,247	63.7	53.3
Durum Wheat Oats Barley Rye Flaxseed Buckwheat	10,480,376 21,363,155 4,300,526 28,231 41,404	53.1 43.6 36.1 124.0 111.2	17.2 43.7 5.6
Sample Grain (in lbs.)		<del></del> / - / - / - / - / - / - / - /	1.3 lbs. per 1,000 lbs.
Screenings (in tons)	50,183	-	-
TOTAL CANADIAN AND			19
Wheat	153,939,897 16,817,014 47,645,206 72,775,293	32.3 15.4 28.2 33.1	29.3 35.9 19.0 35.2
RyeFlaxseed	5,889,582 13,585,437	39.0 21.6	31.5 29.3
Buckwheat Mixed Grain (in lbs.)	162,717 3,259,154	64.7 .4 lbs. per 1,000 lbs.	44.1
Sample Grain (in lbs.)	8,680,897	.8 lbs. per 1,000 lbs.	1.1 lbs. per 1,000 lbs.
Screenings (in tons)	104,736	.5 lbs. per ton	.9 lbs. per ton

#### APPENDIX G

#### Statistics Branch

E. E. BAXTER, Chief Statistician

The Statistics Branch receives regular reports from all elevators licensed under the Canada Grain Act and from these returns compiles and publishes basic statistics relating to the storage and handling of grain within the Canadian elevator system. It prepares audit statements of the operations of all terminal and eastern elevators, verifies the insurance carried on grain stocks, supplies for review by the Board a detailed analysis of country and terminal grain handlings and cooperates with other Board offices in the maintenance of detailed records of principal operations.

The general statistical bulletins released by this office were continued with only normal adjustments in form during 1956-57. A further expansion in the demand for the weekly "Canadian Grain Position" bulletin indicated the increasing use of this current reference document within the grain trade and related fields. The wider adaption of all grain statistics was also reflected in additional requests for special studies and reports. The Branch's machine accounting unit was adjusted and expanded during the year to meet the needs for further records and statistics in connection with terminal and country elevator records, vessel shipping studies and special scientific analyses carried out by the Board's Grain Research Laboratory. Particular extensions were made in those control records related to terminal and country elevator weighovers.

Following representations from certain trade organizations an investigation was initiated regarding the advisability of changing the unit of grain measurement from the bushel to the hundredweight. A report covering the basic proposition and initial findings was presented to the Department in May and further study is being carried out.

The facilities and procedures of the office were made available for examination by representatives of foreign nations studying Board operations under the Colombo Plan.

The responsibilities of the office under provisions of the Inland Water Freight Rates Act were met by the examination of vessel charter confirmations covering all lake grain cargoes shipped from Fort William-Port Arthur during the 1957 season. These records covered a total vessel movement from Fort William-Port Arthur elevators of 278.6 million bushels of the five principal grains in 1,072 separate cargoes from the opening of the 1957 season of navigation on April 10 to its closing on December 14, 1957.

The records and statements prepared in connection with the grain audits of terminal and eastern elevators under Sections 139 and 140 of the Canada Grain Act have been expanded to provide additional details for Board analysis. Study was made of records procedures necessary to meet proposed changes in screenings dust disposal at terminals.

Detailed records of Canadian grain prices have been maintained as required under Section 21 of the Canada Grain Act and, in pursuance of Section 102, storage value reports and grain insurance documents have been examined to ensure adequate protection to the owners of grain held in licensed elevators.

Annual stock and handling returns from 5,360 country elevators covering ors 1956-57 operations were examined and tabulated as a basis for statistical records es and special analytical reports for Board review. The reporting procedure with of respect to country elevator weighups instituted late in 1955-56 was further te. developed to facilitate the administrative work of the Executive Branch and es the Assistant Commissioners.

Summary grain statistics with respect to the 1956-57 crop year and the ds 1957 season of navigation are presented in table form below. Complete details are published in the Branch's annual export publication—"Canadian Grain Exports 1956-57" and in the "Grain Trade of Canada" released jointly by this office and the Agriculture Division of the Dominion Bureau of Statistics.

Table G-1.—Supply and Disposition of Canadian Grain, Crop Year 1956-57

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
Carry-over July 31, 1956 Production in 1956	579,573,811 573,062,000	119,105,841 524,445,000	110,947,935 269,065,000	15,313,037 8,584,000	2,507,471 34,463,000
Total Supply	1,152,635,811	643,550,841	380,012,935	23,897,037	36,970,471
DISPOSITION					
Exported Overseas	256,884,039	1,065,973	55,318,712	1,094,209	21,582,468
Exported to U.S.AConsumed in Canada*	5,871,501 160,677,838	17,615,326 398,799,416	21,562,199 160,400,136	4,353,311 4,289,281	7,807,435
Consumed in Canada	100,077,030	330,733,410	100,400,130	4,203,201	1,007,400
Total Disposition*	423,433,378	417,480,715	237,281,047	9,736,801	29,389,903
Carry-Over (July 31, 1957)					
On Farms (estimated)	319,160,000	172,100,000	80,980,000	10,640,000	1,520,000
In Country, Private Terminal and Mill Elevators	242 002 046	41 960 027	20 005 229	1 501 240	1 704 969
In Public and Semi-Public	242,003,946	41,860,937	39,095,328	1,521,342	1,704,862
Terminal Elevators	75,878,162	5,008,836	15,216,469	1,100,752	2,666,281
In Store at and Afloat to Eastern Elevators	72.000.024	4 700 000	F 422 CO4	404.075	050 400
In Eastern Flour Mills	73,269,834 2,340,000	4,728,890 168,000	5,433,604 75,000	424,075 1,000	853,402
In Transit by Rail—Eastern	2,010,000	100,000	10,000	1,000	
and Western Divisions	16,339,432	2,098,932	1,845,250	455,067	836,020
In Store and in Transit to the United States	211,059	104,531	86,235	18,000	_
Total in Store July 31, 1957*	790 909 422	226,070,126	149 791 996	14 100 000	7,580,565

<sup>\*</sup>Subject to revision.

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Table G-2.—Production and Producers' Marketings in Western Canada, by Provinces, Crop Year 1956-57

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
PRODUCTION (DBS estimate) Manitoba Saskatchewan Alberta and British Columbia	56,000,000 355,000,000 141,175,000	92,000,000 165,000,000 147,460,000	42,000,000 99,000,000 123,147,000	1,100,000 4,100,000 1,338,000	8,000,000 19,000,000 7,236,000
Totals	552,175,000	404,460,000	264,147,000	6,538,000	34,236,00
PRODUCERS' MARKETINGS (a) At Country Elevators Manitoba Saskatchewan Alberta	39,147,481 220,759,115 98,132,888	21,657,694 27,034,752 19,706,228	24,168,542 53,058,039 42,904,639	619,392 2,283,722 1,106,547	6,544,145 15,855,980 5,619,413
Totals	358,039,484	68,398,674	120,131,220	4,009,661	28,019,53
(b) At Public and Semi- Public Terminals Manitoba Saskatchewan Alberta	8,621 542,283	19,857 107,691	17,372 42,102		2,739
Totals	550,904	127,548	59,474		2,739
(c) At Interior Private and Mill Elevators Manitoba Saskatchewan Alberta	245,569 1,845,595 1,660,173	55,075 235,100 395,322	45,991 212,441 135,628	2,146 1,807 37,276	260,177 169,897 510,848
Totals	3,751,337	685,497	394,060	41,229	940,922
(d) Loaded over Platforms Manitoba Saskatchewan Alberta	3,429 52,769 56,041	21,881 20,740	1,702 8,837 65,823	1,600 10,800	1,765 15,262 32,420
Totals	112,239	42,621	76,362	12,400	49,447
Total Producers' Marketings Manitoba Saskatchewan Alberta	39,405,100 222,657,479 100,391,385	21,754,507 27,269,852 20,229,981	24,233,607 53,279,317 43,148,192	621,538 2,287,129 1,154,623	6,806,087 16,041,139 6,165,420
Totals	362,453,964	69,254,340	120,661,116	4,063,290	29,012,646

Table G-3.—Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1956-57

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Fort William-Port Arthur— ReceiptsShipments	195,262,256 173,912,620	49,603,513 52,473,080	77,675,031 75,822,174	5,888,463 6,019,663	22,570,376 21,377,931
Vancouver-New Westminster— ReceiptsShipments	105,689,077 103,891,341	523,674 1,746,446	22,162,647 22,969,989	_	2,797,724 2,408,095
Victoria— Receipts Shipments		1,838 30,160	1,250 1,360	_	710,874 704,475
Prince Rupert— Receipts Shipments		_	8,048,192 8,613,453	=	
Churchill— Receipts Shipments		101,200	_		
Transcona— Receipts Shipments	343,043 371,684	34,395 18,851	61,822 60,759	2,231 2,231	16,006 15,913
Calgary— Receipts Shipments		3,013 5,889	1,128,183 1,221,361	28,125 30,691	300,309 297,362
Edmonton— ReceiptsShipments.		114,649 124,872	63,429 61,061	=	297,944 297,533
Lethbridge— ReceiptsShipments			375		27,697 27,681
Moose Jaw— Receipts Shipments	1,171,686 798,795	_	1,967 1,967	=	3,218 3,218
Saskatoon— Receipts Shipments		43,287 75,504			_
Total Receipts	322,966,943	50,324,369	109,142,521	5,918,819	26,724,148
Total Shipments	301,066,123	54,576,002	108,752,499	6,052,585	25,132,208

Table G-4.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumer Channels, Crop Year 1956-57

From	United States Flaxseed	United States Corn	United States Soybeans	United States Rice	Iran Rice
Eastern Elevators Fort William-Port Arthur Interior Terminals	bu. 47,040	bu. 6,223,301	bu. 1,714,801	bu. 113,657	bu. 48,148
Interior Private and Mill Elevators Pacific Coast Elevators	_	1,059,697			_

Table G-5.—Primary Receipts and Shipments at Eastern Elevators, Crop Year 1956-57

American Real Manager	Receipts	Shipments
C 1: C :	bu.	bu.
Canadian Grain—	170 100 510	150 400 147
Wheat		153,430,147
Oats	38,842,719	39,693,102
Barley	48,093,642	48,846,074
Rye	1,691,314	2,020,125
Flaxseed	21,378,233	21,006,474
Corn	2,510,755	2,976,734
Beans	2,263,806	2,212,832
Buckwheat	298,322	187,965
Peas	241,010	240,660
Rapeseed (lbs.)	82,094,660	81,541,810
Mixed Grain (lbs.)	282,766	- 2 <u>- 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 </u>
Sample Grain (lbs.)	12,681,790	13,286,145
United States Grain—		Theresis (2)
Wheat		137,384
Flaxseed	2,093,279	1,782,760
Corn	8,303,155	7,445,183
Soybeans	1,806,570	1,714,801
Rice	113,657	113,657
Other Foreign Grain—		
Iran Rice	48,148	48,148

by Months Cron Year 1956-57

Table G-6.—Supply and Disposition of Canadian Grain in United States Positions, Crop Year 1956-57

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
In Store and in Transit U.S.A Receipts direct from Canada	770,887 6,388,557	820,675 16,899,182	21,562,199	73,723 4,297,588	195,983
Total Supply	7,159,444	17,719,857	21,562,199	4,371,311	195,983
DISPOSITION Exported	480,137 729,054 5,871,501	 17,615,326	<u> </u>	4,353,311	195,983
Total Disposition	7,080,692	17,615,326	21,562,199	4,353,311	195,983
In Store and in Transit, July 31, 1957	78,752	104,531		18,000	

Table G-7.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1956-57

57 =

Total	Wheat Wheat Flour	bu.	29,763,940 27,403,493 24,264,739 24,648,205 20,769,815	(8,261,346) (4,850,045) (6,679,732)	23,041,388 24,686,814 22,654,647	262,755,540	309,181,465	311,504,759
Whose	Wileau Flour2	bu.	3,434,137 2,781,128 3,359,384 3,196,380 2,907,296		2,033,236 2,316,619 1,848,816 2,682,934	34,498,406 26	39,999,9903 30	46,894,367 31
Total	All Wheat	bu.	26,329,803 24,622,365 20,905,355 21,451,825 17,862,519	14,918,160 12,053,130 13,903,379	20,724,769 22,837,998 19,971,713	228,257,134	269,181,475	264,610,392
es Imports1	Milling in Bond	pa.	59,490		858,581 60,676 64,366	1,114,084	562,395	3,439,257
United States Imports	For Domestic Use	pn.	222,657 86,272 221,947 874,536 763,141	486,757 114,812 168,321	371,925 371,925 734,393 416,938	4,757,417	6,676,014	12,751,713
Via	States Atlantic Ports	pn.	480,137			480,137	227,233	1,624,552
Via Fort William-	Port Arthur Direct	pn.				1	18,667	96,836
Via	Churchill	bu.	6,383,640 8,704,023 1,162,657			16,250,320	12,818,845	10,442,143
Via Canadian St	Lawrence- Atlantic Ports	bu.	9,265,882 8,632,846 11,320,183 12,332,770 7,070,050	5,003,423 3,894,696 5,846,866	10,261,922 13,578,776 9,019,344	101,535,965	150,556,005	136,362,144
Via	Pacific Ports	bu.	10,457,624 7,139,734 8,200,568 8,244,519 9,478,220	9,427,980 8,043,622 7,888,192	9,232,341 8,464,153 10,471,065	104,119,211	98,322,316	99,893,747
		1956	August	January February March April	May. June. July	Total Crop Year 1956-57	Total Crop Year 1955-56	5-Year Average 1951-52 to 1955-56

1Compiled from returns of Canadian elevator licensees and shippers and advice from American grain correspondents.

<sup>2</sup>Canadian Customs returns converted to bushels—unadjusted for time lag.

3Revised—adjusted to remove effect of time lag in reports made by the Customs.

Table G-8.—Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1956-57

Grades	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via United States Atlantic Ports	Total
XXX	bu.	bu.	bu.	bu.	bu.
WHEAT—  1 Manitoba Northern  2 Manitoba Northern  3 Manitoba Northern  4 Manitoba Northern  No. 5.  No. 6.  2 C.W. Garnet  3 C.W. Garnet  1 Alberta Red Winter  2 Alberta Winter  3 Alberta Winter  Cother Western  Eastern  2 C.W. Amber Durum  Extra 4 C.W. Amber  Durum  4 C.W. Amber Durum	7,472,471 24,047,231 1,466,070 ———————————————————————————————————	5,536,629 37,102,679 22,742,185 4,872,057 12,309,496 26,966 1,991 —————————————————————————————————	260,618 13,532,788 1,700,533 264,165 65,399 426,817	480,137	6,737,3 81,435,8 61,817,4 12,608,6 36,422,1 1,493,0 259,8 222,4 777,9 234,8 7,801,6 508,4 848,3 1,895,6 3,096,3 6,083,0
Other Durum		140,525			140,52
Totals	104,119,211	101,535,965	16,250,320	480,137	222,385,6
OATS— 2 C.W Extra 3 C.W 3 C.W Extra 1 Feed 1 Feed Mixed Feed. Eastern	7,059 5,294 34,706 479,953	16,487 164,733 12,035 3,295			88 16,48 171,79 5,29 46,74 479,95 3,29
Totals	527,895	196,550			724,44
BARLEY— 3 C.W. Six-Row. 3 C.W. Two-Row. 1 Feed. Extra 2 Feed. 2 Feed. Other Western.	1,378,875 9,504,287 14,913,499 4,189,219 1,184,168	435,270 1,265,989 1,186,494 1,406,684 19,753,417 100,810			1,814,14 10,770,27 16,099,99 5,595,90 20,937,58 100,81
Totals	31,170,048	24,148,664			55,318,71
RYE— 2 C.W		265,538 828,671 1,094,209			265,53 828,67 1,094,20
100010					
FLAXSEED— 1 C.W	2,009,010 1,141,406	14,080,045 4,156,024	_	195,983	16,285,03 5,297,43

Table G-9.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1956-57

Loaded at	Wheat (All varieties) bu.	Oats	Barley bu.	Rye	Flaxseed bu.	Total All Grains bu.
Vancouver-New Westminster. Victoria. Prince Rupert. Montreal. Sorel. Three Rivers. Quebec. Saint John. West Saint John. Churchill.	102,882,123 1,199,669 37,417 52,869,592 8,075,293 10,748,034 11,036,331 1,077,066 8,862,006 8,862,006 8,867,673 16,250,320	227,895 196,550 ———————————————————————————————————	22,506,595 8,613,453 17,614,733 4,895,900 853,520 ————————————————————————————————————	269,767	7.11,591 10,668,133 165,075 — 35,993 4,719,318. 2,647,550	126,440,440 1,911,260 8,650,870 81,618,775 13,136,268 11,036,301 1,113,059 14,371,781 12,333,719 16,250,320
Totals—Canadian Ports	221,905,496	724,445	55,318,712	1,094,209	21,386,485	300,429,347
Baltimore Boston. New York.	480,137	- -	-		167,814 28,169	480,137 167,814 28,169
Totals—U.S.A. Ports	480,137				195,983	676,120
Totals to Overseas. Wheat Flouri. Rolled Oats and Oatmeali. U.S.A. Imports2.	222,385,633 34,498,406 5,871,501	724,445 341,528 17,615,326	55,318,712	1,094,209	21,582,468	301,105,467 34,498,406 341,528 49,402,337
Grand Totals	262,755,540	18,681,299	76,880,911	5,447,520	21,582,468	385,347,738

1Canadian Customs Returns—converted to bushels.

<sup>2</sup>Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.

Table G-10.—Tough and Damp Grain Dried, by Storage Position, Crop Year 195

	Ai	tificial Dry	ving	Natural	
	Tough	Damp	Tough and Damp	Natural Drying	Total
LAKEHEAD Wheat Durum Wheat. Oats Barley Rye Flaxseed.	=	bu. 10,292 4,064 1,992 1,945 6,806	bu. 11,251 4,064 1,992 1,945 391 6,806	bu. 3,715,320 91,325 349,916 1,379,403 106,663 120,090	bu. 3,726,\$ 95,\$ 351,\$ 1,381,\$ 107,\$ 126,\$
TotalsPACIFIC COAST	1,350	25,099	26,449	5,762,717	5,789,1
Wheat Oats Barley Rye. Flaxseed	216,239 415,783		216,239 415,783	4,426,298 14,397 1,872,577 41,911	4,642,5 14,3 2,288,3 
Totals	632,022		632,022	6,355,183	6,987,2
INTERIOR WheatFlaxseed	10,617	82 1,843	82 12,460	70,491	70,5 12,4
Totals	10,617	1,925	12,542	70,491	83,0
Churchill Wheat	-			13,898	13,8
Totals, All Positions	643,989	27,024	671,013	12,202,289	12,873,3

Table G-11.—Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation, 1957

William-Port A	arthur, Sea	ason of Nav	vigation, 19	957	
Port of Discharge	Wheat	Oats	Barley	Rye	Flaxsee
Georgian Bay Ports, Goderich, Sarnia		(ce	ents per bus	hel)	
and Walkerville. Port Colborne. Toronto. Kingston. Prescott. Montreal (Direct). Montreal via Bay Ports. Montreal via Port Colborne. Montreal via Toronto.	9.0 16.0 16.0 16.0 16.0	5.0 6.75 7.25 8.0 8.25 13.0 13.0	5.25 7.25 7.5 8.25 8.5 15.25 15.25 15.25 15.25	5.5 7.5 9.0 16.0 16.0	8.515 — 17.0 17.0 17.0
Montreal via Kingston. Montreal via Prescott. Sorel (Direct)	16.0 16.0 16.0 16.0 16.0 16.0	13.0 13.0 13.0 13.0 13.0	15.25 15.25 15.25 15.25 15.25 15.25	16.0 16.0 ————————————————————————————————————	17.0 17.0 ————————————————————————————————————
Three Rivers via Port Colborne Three Rivers via Toronto Three Rivers via Kingston Quebec (Direct) Quebec via Port Colborne Quebec via Prescott Buffalo Chicago Detroit Duluth-Superior	8.072 8.377 6.0	13.0 13.0 13.0 6.881 6.689	15.25 15.25 15.25 7.621 7.5 8.622 5.5	16.0 ————————————————————————————————————	
Huron		6.331 6.5 5.870	7.556 7.538	=	

Note.—Rates originally quoted in United States Funds have been converted to Canadian curren at the prevailing rates of exchange.

Table G-12.—Overages and Shortages Disclosed by Weighovers of Grain Stored in PUBLIC TERMINAL ELEVATORS, Crop Year 1956-57 Note:-The figures shown in this table represent differences between outstanding registered warehouse receipts and quantities of grain disclosed at weighover.

Mixed Feed Barley Rye Flaxseed Corn Corn Rapsseed Sample Grain	Over- Short Over- Short Over- Short Over- Short Over age	bu.	262.6 28.0 134.5	0 1,069.7 857.7 35.0 34.0	5 113.7 19.1	9 422.9 41.2 840	5 1,755.2 113.7 28.0 1,011.3 41.2 35.0 34.0 840	22,608.5 1,641.5 28.0 970.1	0.00
		bu. bu.	46.4	0.001	105.6	22,402.9	46.4 22,603.5		
Oats	Over- 9	bu.	1	792.5	1	1	792.5	746.1	
Wheat	Over- Short- age age	bu. bu.	2,038.3	8,783.3	951.9	5.61	2,371.4 10,821.6		0 770
Date of Wood	Piccisce	CANADIAN GOVERNMENT ELEVATORS	June 17- 28 Calgary, Alta	Edmonton, Alta	Lethbridge, Alta	July 5 Saskatoon, Sask 1,419.5	Totals2,3	Net Totals— Overages	Chartodo

Table G-13.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1956-57

Date of	Licences	3		EXCESS	SS					DEFICIENCY	ENCY		
Weighover	Piccusco	1 Hard	Northern Northern Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	Northern	Northern	Northern Northern Northern	1 C.W. Garnet	20
1957	CANADIAN GOVERNMENT FOR THE STATE OF THE STA	pn.	bu.	pn.	bu.	pa.	bu.	pa.	bu.	bu.	pa.	bu.	bu.
	ELEVATORS									0.0000.0			
June 17-28	Calgary, Alta	1		1	1	1	1	1	82.8	1,465.3	750.3	1	45.9
May 13-17	Edmonton, Alta	1	1	1	1	1	1	1	1	58.2	6,300.1	1	435.7
May 6-10	Lethbridge, Alta	1	1	1	788.3	1	1	1	20.2	308.5	1	1	1
June 10-July 5	Saskatoon, Sask	1	1	23,482.8	1	1	1	1	22.3	1	30,888.6		1

Table G-14.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1956-57

Doto	i L			EXCESS	SSS					DEFICIENCY	ENCY		
Date of Weighover	ricensee	1 Hard	1 Northern	Northern Northern Northern	3 Northern	1 C.W. 2 C.W. Garnet Garnet	2 C.W. Garnet	1 Hard	1 Northern		Northern Northern	1 C.W. Garnet	2 C.W. Garnet
	1	pn.	pa.	pn.	pn.	pn.	pn.	pn.	bu.	pa.	pa.	pn.	pn.
	FORT WILLIAM-PORT ARTHUR												
Dec. 17-20, 1956	Canadian Consolidated Grain Co. Ltd. Empire							1		1,488.9	39.1		1
Jan. 8-18, 1957	Eastern Terminal Elevator Co. Ltd	-	1	12,293.3	1		-	1	13,723.9	1	24,273.6	1	1
Dec. 14-18, 1956	Fort William Elevator Co. Ltd. Elevator "E"			1	-								1
Aug. 7-9, 1956 Aug. 10-15, 1956 Aug. 16-24, 1956	Manitoba Pool Elevators Elevator No. 1. Elevator No. 2. Elevator No. 9.		111				111		4.8 174.9 124.6	843.3 1,704.8 2,610.9	675.9 762.3 1,409.4		111
Dec. 13-17, 1956	McCabe Grain Co. Ltd	-		1	1		-	1	284.7	1,719.9	4,822.3	18.5	17.6
Dec. 17-26, 1956	National Grain Terminal	-	-	-		-		1	696.5	10,629.3	34,739.0	1	1
Dec. 11-17, 1956	Ogilvie Flour Mills Co. Ltd	-		-	-			1	210.3	3,057.1	106.8	1	1
Dec. 26, 1956- Jan. 4, 1957	Saskatchewan Wheat Pool Elevator No. 7		1	1	-				2,513.6	45,925.8	45,925.8 37,063.3	1	3.7
Dec. 12-22, 1956	Searle Grain Co. Ltd	-	-		-	-	as designation	-	660.4	10,890.6	10,890.6 18,742.7	1	3.7
July 15-18, 1957	Superior Elevator Co. Ltd	1		2,565.5	-		-	1	36.1	1	5,154.2	1	1
Jan. 9-Feb. 15, 1957	Jan. 9-Feb. 15, 1957 Westland Elevators Ltd	1	1	1	1		1	1	5,997.7	101,268.4 41,679.1	41,679.1	1	3.7

Table G-14.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1956-57.—Concluded

Date of	agenesi I			EXCESS	388					DEFICIENCY	NCY		
Weighover		1 Hard	Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	Northern	2 Northern	Northern Northern Northern Garnet	1 C.W. Garnet	2 C.W. Garnet
		pn.	bu.	bu.	bu.	bu.	pa.	bu.	pu.	bu.	bu.	bu.	bu.
10	VANCOUVER-NEW WESTMINSTER												
Jan. 12-19, 1957	Alberta Wheat Pool					1	1	-	1.0	15,528.0	15,528.0 26,826.3	-	10.2
May 3-10, 1957	Burrard Terminals Ltd	1	31.2	1	-	1	1		1	6,342.7	7,346.4	1	1
Sept. 7-12, 1956	Cargill Grain Co. Ltd	1	1	8,135.5	1,703 4		1	-	12,314.2	1	.	1	1
Jan. 11-18, 1957	Pacific Elevators Ltd. Elevator No. 1	1				1			3,630.3	62,529.5	62,529.5 49,475.5	1	452.5
Aug. 13-16, 1956	James Richardson & Sons Ltd. Elevator No. 4 (N.H.B.)				1	i	1		14.2	210.1	191.6		3.7
Oct. 9-15, 1956	Searle Grain Co. Ltd			112.4	1		1	1	131.5	-	948.8	1	1
	VICTORIA, B.C.												
June 20-25, 1957	Victoria Elevator Ltd	1			-		1	-	1,439.1	7,700.8	7,700.8 14,108.5		1
in the	PRINCE RUPERT, B.C.									orte			
June 3-11, 1957	Canadian Government Elevator	1			1	1	-	1	1	1	1	1	1

Table G-15.—Excesses and Deficiencies in Specified Grades of Wheat disclosed  $\mathfrak{h}_{\Gamma a}$  Weighovers of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1956-5

Grade of Wheat	Excess	Deficiency
	bu.	bu.
Hard		-
Northern	-	
Northern		
Northern		
C.W. Garnet		-
C.W. Garnet		

No wheat of the above grades was handled or in store in the following elevators:

M

Date of Weighover	Elevator Company	Location
July 29th, 1957. December 27th, 1956. December 27th, 1956. December 21st, 1956. December 21st, 1956.	Canada Malting Co. Ltd Canada Malting Co. Ltd Canada Malting Co. Ltd Dominion Malting Co. Ltd National Grain Feed Mill	Calgary, Alberta Winnipeg, Manitoba Port Arthur, Ontario M Transcona, Manitoba Fort William, Ontario

Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1956-57

Date of Weighover	Licensee	Kind of Grain	Overage	Shorta
1957			bu.	bu.
Mar. 21-28	Collingwood Terminals Ltd	Canada Western Wheat Canada Western Oats Canada Western Barley Canada Western Rye Canada Western Peas Canada Western Screenings	*16,421	5,085 5,399 181 205
Mar. 12-19	GODERICH Upper Lakes and St. Lawrence Transportation Co. Ltd	Canada Western Wheat		1,504 3,182 1,557 *35,59
Jan. 29- Feb. 11	KINGSTON Canada Steamship Lines Ltd	Canada Western Wheat Canada Western Oats Canada Western Barley Canada Western Rye Canada Western Flaxseed U.S.A. Corn		9,392 305 2,523 699 1,457 406
Sept. 27, 1956 Mar. 8-27	LAKEFIELD Lakefield Elevator Co MIDLAND Canada Steamship Lines Ltd	Canada Western Wheat  Canada Western Wheat  Canada Western Oats  Canada Western Barley  Canada Western Rye		4,602 4,353 64 2. 89
Feb. 21- Mar. 7	Canadian National Railways	Canada Western Wheat Canada Western Barley Canada Western Rye	=	15,741. 18. 183.
Mar. 19-29	Midland-Simcoe Elevator Co. Ltd	Canada Western Wheat Canada Western Oats Canada Western Barley	=	4,869. 579. 597.

hall by G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1956-57—Continued

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1957			bu.	bu.
Mar. 28-	Renown Investments	Canada Western Wheat		1,353.5
April 2	Ltd.	Canada Western Oats		67.9
		Canada Western Rye		3.0
Mar. 11-15	MONTREAL			
	Dominion Elevator Ltd.	Canada Western Wheat Canada Western Oats		2,426.5 1,274.6
		Canada Western Barley		869.0
		Canada Western Sample Grain		*3,169
	2	Canada Western Screenings		*22,398
Mar. 18-	OWEN SOUND	U.S.A. Corn		155.2
April 5	Great Lakes Elevator	Canada Western Wheat		7,451.2
	Co. Ltd.	Canada Western Oats		1,924.5
		Canada Western Barley		851.3
Mar. 11-15	PORT COLBORNE	Canada Western Screenings		*33,464
Wat. 11-15	Maple Leaf Milling	Canada Western Wheat		7.096.9
	Co. Ltd.	Canada Western Oats		142.3
	200	Canada Western Barley		1,689.3
		Canada Western Rye		252.4
		Canada Western Flaxseed		18.7
		Canada Western Sample Grain Canada Western Screenings		*775 *1,123
		U.S.A. Corn		22.3
April 1-9	National Harbours	Canada Western Wheat		13,182.5
.p	Board	Canada Western Oats		1,325.3
		Canada Western Barley		12,605.1
		Canada Western Rye		1,297.7
		Canada Western Flaxseed		2,117.0 15.6
		U.S.A. Soybeans.		557.3
April 3-16	PORT McNicoll			00.10
	Canadian Pacific	Canada Western Wheat		9,037.5
	Railway Co	Canada Western Oats	-	11.1
Feb. 26-	PRESCOTT	Canada Western Barley		196.1
Mar. 8	National Harbours	Canada Western Wheat	2,300.6	
	Board	Canada Western Oats	1,112.3	
		Canada Western Barley		2,724.1
		Canada Western Rye Canada Western Flaxseed		1,109.0
		Canada Western Screenings		1,970.5 *304
		U.S.A. Flaxseed		128.0
Fab. 12.00	0	U.S.A. Corn		5,083.8
Feb. 13-22	QUEBEC National Harbours	Canada Wastorn Wheet		11 104 0
	Board	Canada Western Wheat Canada Western Oats		11,124.2
	2044	Canada Western Barley		2,620.3
		Canada Western Rye		49.9
		Canada Western Sample Grain		*50
Feb. 25-	SOREL	Canada Western Screenings		*4,350
Mar. 7	North American	Canada Western Wheat		7,250.7
	Elevators Ltd	Canada Western Oats		638.7
		Canada Western Barley		4,047.1
		Canada Western Rye		511.3
		Canada Western Flaxseed		147.7

Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1956-57—Concluded

Date of Weighover	Licensee	Kind of Grain	Overage	Shortag
1957			bu.	bu.
Feb. 26- Mar. 15	Toronto Toronto Elevators Ltd.	Canada Western Wheat Canada Western Oats Canada Western Barley Canada Western Rye Canada Western Flaxseed Canada Western Sample Grain Canada Western Screenings U.S.A. Corn U.S.A. Soybeans	95.7	6,571.9 2,889.8 2,936.4 95.7 2,997.6 *4,459 *3,872
April 1-11	Walkerville Hiram Walker & Sons Grain Corp. Ltd	Canada Western Wheat Canada Western Oats Canada Western Barley Canada Western Rye Screenings, Origin Unknown U.S.A. Corn		3,722.5 75.0 41.1 145.3 *1,36 129.
April 5-9	St. John Canadian National Railway Co	Canada Western Wheat		768. 22. 11. *52
April 15-18	WEST ST. JOHN Canadian Pacific Railway Co. Elevator "B"	Canada Western Wheat. Canada Western Barley. Canada Western Flaxseed. Canada Western Screenings. Canada Western Peas. Canada Western Rapeseed.		2,210. 72. 747. *98 7 *13,08
April 11-12	Canadian Pacific Railway Co. Elevator "H"	Canada Western Wheat		2,144 433 3 1,016 *1,73 11 *13,25

<sup>\*</sup>Pounds.

### APPENDIX H

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## The Grain Research Laboratory

J. ANSEL ANDERSON, Chief Chemist

Section 22 of the Canada Grain Act requires that "the Board shall maintain an efficient and adequately equipped laboratory for research work in relation to grain".

The following summary of the Laboratory's work for 1957 deals with the 95. quality of Canadian grain marketed in the 1956-57 crop year, the quality of 45 1957 crops, research and other activities. In accordance with past practice, 1877 a separate annual report will be published by the Laboratory to put on record data on the quality of Canadian grain and progress made in research.

## Quality of Grain Marketed in 1956-57

Studies of the qualities of spring wheat, durum wheat, barley, oil seeds, 361 and other cereal grains, at various stages of marketing, were continued throughout the 1956-57 crop year. Although a considerable volume of wheat carried over in country elevators and on farms was moved during the crop year, average quality of grain moved to terminal elevators reflected the characteristics of 1.9 the 1956 crop; a cool wet season increased bushel weight but kept protein 527 content well below average for the fifth successive year.

Spring wheat marketed in 1956-57 was high in bushel weight and flour 2.5 yield. Protein content and baking strength were below the long-term averages, but levels for the Northern grades were very similar to those of the previous 7.1 crop year. Carrying power for weaker wheats was good considering the protein 180 level. The large durum wheat crop was predominantly No. 4 C.W. and the macaroni-making quality of this grade was comparatively good; the new commercial grade, Extra No. 4 C.W., continued to find wide acceptance in European markets. Malting quality of barley was good and similar to that of the previous crop year. The record flax crop was high in oil content and iodine value and was classed as a crop of excellent quality. Western Canada rapeseed became a large enough crop to warrant a comprehensive survey; average oil content was 45%, which represents a high level for this crop.

# Estimated Quality of 1957 Crops

The weather at harvest time was not favourable and much grain lost grade in the swath. It is estimated that the bulk of the wheat crop (348 million bushels, including 44 million of durum) will grade Nos. 2, 3 and 4 Northern, with No. 3 Northern as the largest grade. As a result of the relatively dry summer, the 1957 wheat crop has a protein content of 14.1%, and baking strength and carrying power for weaker wheats are excellent. The new crop strength and carrying power for weaker wheats are excellent. The new crop thus has the high quality long associated with the "Manitobas". Bushel weight is not so high as in recent years, but the Northern grades mill very satisfactorily and give high yields of flour of good color and low ash. Doughs handle very well, and baking absorption and gassing power are both at satisfactory levels.

Despite a 56% increase in seeded acreage, the durum wheat crop is only about 5 million bushels greater than in 1956, and No. 3 C.W. is expected to be the largest grade. The crop will be higher in protein than for several years and bushel weight a little lower. As the top three grades contain only high quality varieties, they again produce macaroni of excellent color; lipoxidase activity is

also low for each of these grades. Extra No. 4 C.W. is expected to be somewhat better in macaroni color this year, and No. 4 C.W. will probably be similar to last year's grade.

The new barley crop is estimated to be 216 million bushels, and over 60% is expected to enter the malting grades. Malting quality is about average, but percentages of plump barley are high in the top grades. In line with the higher nitrogen content, malt extract yields are lower than for last year's samples. Enzymic activity is high for the malting grades this year.

The flax crop is estimated to be 23 million bushels and is below average in grade. Oil content and iodine value are both lower than in 1956, but protein content is higher. The second survey of rapeseed shows that oil content is 41.8% and that protein content is 42.5%; the former is lower and the latter higher than in 1956.

## **Bulletins and Maps**

Preliminary information on the quality of different grades of 1957 crops of spring wheat, durum wheat, barley and oil seeds, was published in two protein maps and four crop bulletins (two on wheat, one on barley, and one on flax and rapeseed). Information contained in these bulletins was also presented at two meetings of the Committee on Western Grain Standards. These publications were sent by the Laboratory to domestic and foreign buyers of Canadian grain, and separate distribution of some of them was made by the Canadian Wheat Board. The bulletin on the quality of the wheat crop was also distributed to Canadian Trade Commissioners throughout the world by the Grain Division, Department of Trade and Commerce, Ottawa. Press releases preceded publication of the maps and bulletins.

The quarterly bulletins on Canadian wheat cargoes, started two years ago, were continued throughout 1957. The four issues were distributed mainly by Canadian Trade Commissioners who received their supplies direct by airmail. With the first quarter of the 1957-58 crop year the Laboratory began a second series of quarterly bulletins that deals with the quality of durum wheat cargoes exported from Canada. Comprehensive quality data for average samples of different grades, and data for moisture content, bushel weight and protein content of individual cargoes, are presented and discussed in much the same way as in the spring wheat cargo bulletins.

# Service to the Inspection Branch

The Laboratory continued to work in close co-operation with the Inspection Branch to provide information and service required in settling grading problems. Studies were made of the quality of tentative standard and standard export samples of different grains prepared by the Chief Inspector for approval by the Committee on Western Grain Standards. From time to time special tests of current crops were made to provide information that would assist in grading. For example, scab damage in White Winter Wheat was examined and found to be a great deal more severe than the appearance of the kernels would indicate. Supervision of moisture testing and of equipment in the Board's Inspection offices was contained throughout the year, and C.A.E. electrical moisture meters were installed in 10 of the offices. Increased use is being made of these moisture meters to segregate samples that are well below the maximum for straight grade and need not be tested by the longer Brown-Duvel method. Studies aimed at maintenance of uniformity in protein contents of export cargoes of top grades of wheat have been continued.

## Variety Testing

As in previous years, the Laboratory took a major part in studies, sponsored by the Associate Committee on Grain Research, of the quality of spring wheat, durum wheat and malting barley varieties developed by Canadian plant breeders. The 1957 studies showed that some of the new rust-resistant wheat varieties now being developed are promising in quality. Final tests of Traill barley showed that it does not have "fair malting quality" and that it cannot be distinguished in kernel characteristics from the unlicensed variety Kindred which is still being grown on a small acreage in Manitoba. Neither Traill nor Kindred will be graded higher than No. 1 Feed after August 1, 1958. Small-scale prediction tests developed by the Laboratory for durum wheat and malting barley are now being used to advantage in providing plant breeders with preliminary information on the quality of early generation hybrids. Progress in basic research has made it feasible to re-examine the possibility of developing a more comprehensive set of small-scale prediction tests for quality in spring wheats; these studies are being undertaken in co-operation with the Canada Department of Agriculture.

## Service to Other Organizations

Laboratory services and technical advice to the Canadian Wheat Board, to the Grain Division of the Department of Trade and Commerce, to Commercial Counsellors and Trade Commissioners in importing countries, and to other government agencies, continue to expand steadily. This work relates mainly to promotion of sales of Canadian wheat. Inquiries relating to the quality of Canadian grains in general, of specific grades, and of individual cargoes, were received from many sources. Considerable time and numerous comparative studies of the qualities of various samples were required to deal adequately with this section of the Laboratory's service work. Visits to foreign countries by members of the Laboratory's staff, mentioned later in this report, also play an important role in dealing with these matters.

Close liaison has continued with the Brewing and Malting Barley Research Institute, Winnipeg, and with the Northwest Crop Improvement Association, Minneapolis. The Laboratory has continued to carry its share of the work of the American Association of Cereal Chemists, and is collaborating with other cereal chemists throughout the world in the formation of an International Association for Cereal Chemistry.

### Research

Like other comparable institutions, the Grain Research Laboratory endeavours to maintain a balanced program of short, intermediate and long-term research projects. On the one hand, the short-term projects represent mainly applied research seeking such prompt solutions to immediate practical problems as can be obtained in the light of existing knowledge; on the other hand, the long-term projects represent basic research designed to add to existing knowledge on fundamental biochemical principles relating to quality in various cereal grains.

In applied research on wheat, priority is being given to development of a more effective group of tests for evaluating breadmaking quality. A wide range of laboratory milling tests, baking tests, dough and gluten tests, and analytical procedures has been developed throughout the world. Each importing country tends to use its own procedures and modifications in examining Canadian wheat. The Board's Laboratory must be familiar with all such tests and should be able to reproduce them. At present, a number of the available tests, and certain

modifications of them developed in this Laboratory, are being applied to a wide variety of different types of wheat with the object of re-examining the possibilities for selecting better groups of tests for use in the Laboratory's service studies. The development of suitable laboratory milling procedures continues to present special problems. Moreover, no single baking test is wholly adequate for any given purpose, and the development of a limited battery of baking tests designed to provide required information effectively, is no small task. A number of other types of tests for quality have proved useful and are advocated by various laboratories, but these cannot replace milling and baking. Since the Laboratory is testing new varieties, grade averages, individual samples of cargoes of Canadian wheat, and a wide range of competing wheats, a very comprehensive set of methods is required for routine work.

Applied research on the quality of stored flour is continuing, and a constant check is being kept on the quality of wheat in store in Western Canada.

In basic research on wheat, attention has been focused on the role of flour lipids in relation to the improving action of bromate. Another problem of fundamental importance in dough chemistry is the part played by the sulfhydryl group. The new reagent N-ethylmaleimide holds promise for work on this problem, and a preliminary kinetic investigation of its reaction with cysteine has been completed. Studies are also being made in application of the technique of amperometric titration to the determination of the sulfhydryl group. Active research is continuing in the study of the physical properties of dough in relation to quality.

In barley research, the new malting equipment has been thoroughly tested and is now in operation. This equipment is designed primarily for final testing of the quality of new varieties of barley. It is also being used for investigating certain biochemical changes that occur in producing malt from barley. Previous studies indicated that there is a relation between cytolytic activity and malting quality of Canadian barley varieties, and this work has been extended to include examination of the non-starch polysaccharide (gum) components of barley varieties as these are substrates for cytolytic enzymes. Changes in the polysaccharide components during malting are also being followed. As there are indications that the cytolytic enzyme system is a mixture of several enzymes, studies on the characterization of types of enzyme activity are being made.

#### Staff and Facilities

The first award of the National Research Council Postdoctorate Fellowship, tenable in the Board's Laboratory, was made to Professor Hiroshi Matsumoto of Osaka Women's University. Professor Matsumoto arrived in August and will spend a year working with Dr. Hlynka on the role of the sulfhydryl group.

Dr. W. Bushuk was awarded a National Research Council Overseas Fellowship and one of the two Rutherford Memorial Fellowships offered each year by the Royal Society of Canada. He has been granted leave of absence and will spend a year with Professor H. Benoit at the Centre des Recherches sur les Macromolecules at Strasbourg. Mr. M. H. Birnboim is still on leave for studies towards the degree of Ph.D. at the University of Wisconsin.

Good progress is being made with the expansion of the Laboratory recommended in the Annual Report of the Board for 1956. Two chemists, Mr. R. R. Matsuo and Miss M. E. McMullan, joined the professional staff, and five additions were made to the subprofessional staff during the year.

An additional 5,000 sq. ft. of space has been obtained on the ground floor adjoining existing laboratories. This will permit consolidation of all routine studies and services on the ground floor, leaving the eighth floor laboratories for applied and basic research. Provision is being made on the ground floor for doubling the size of the milling and baking sections, for a section to house the malting equipment and associated analyses, and for general analytical laboratory. The workshop, darkroom, drafting and statistical services, will be moved to the ground floor, and larger quarters will be provided for the sample room, library, and general office. By the end of the year, the new analytical laboratory, sample room and workshop, were occupied. Remaining reconstruction should be completed within the next six to eight months.

## Overseas Visits and Visitors

During the year, three members of the staff went abroad on official visits. Dr. G. N. Irvine, with Mr. A. W. Alcock of the Maple Leaf Milling Company, undertook a technical mission to Japan to study the cereal processing industries and related research. Dr. Irvine also visited Hong Kong and Karachi en route to Europe where he spent several weeks, on behalf of the Canadian Wheat Board, on investigations relating to durum wheat in Italy, Germany, France, Netherlands and Switzerland.

Dr. W. O. S. Meredith, who was on furlough leave in the United Kingdom, accepted an invitation to present a paper at the European Brewery Convention Congress in Copenhagen, and subsequently visited centres of barley research in Denmark, Sweden, Holland, Germany, France, Ireland and the United Kingdom.

Dr. J. A. Anderson was in France, as a representative of the Department of Trade and Commerce, and subsequently made additional visits in Belgium, Netherlands, Germany and the United Kingdom.

The Laboratory was especially pleased to welcome five well known cereal chemists from Europe: Ing. E. Maes of Belgium, Dr. G. L. Bertram of the Netherlands, Dr. S. Wagner of Switzerland, Dr. W. Schafer of Germany, and Dr. F. Muntoni of Italy.

Two missions from the United Kingdom, two from Turkey and one each from Poland, Pakistan, Burma, the Soviet Union, Germany, and Roumania visited the Laboratory. Other overseas visitors came from Australia, Austria, France, Greece, Ireland, Japan, South Africaand Switzerland. Canadian Commercial Counsellors or Trade Commissioners from Bogota, Belgium, Germany, Philippines and Portugal, also visited the Laboratory during 1957.

### APPENDIX I

### Canadian Government Elevators

A. E. JACOBSON, General Manager

In accordance with the provisions of Section 166 of the Canada Grain Act and Order-in-Council P.C. 1372 of August 19, 1925, the Board manages and operates five interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge, and one terminal elevator at Prince Rupert, and leases one terminal elevator at Port Arthur.

In the 1956-57 crop year the interior elevators were operated under Public Terminal Elevator Licence. The Prince Rupert elevator was operated under a Semi-Public Terminal Elevator Licence and the Port Arthur elevator continued under lease to McCabe Grain Company Limited.

## Handlings

Receipts at 17.0 million bushels in the 1956-57 crop year were 36 per cent higher than the previous year while shipments at 18.7 million bushels were 31 per cent higher. Shipments were 1.7 million bushels higher than receipts, which is reflected in lower stocks in store at the end of the crop year. Receipts of wheat and barley at 13.2 million bushels constituted 75 per cent of total receipts. Receipts at Prince Rupert were composed entirely of barley. Receipts and shipments by elevators were:

Elevator	Capacity	Stocks August 1, 1956	Net Receipts	Net Shipments	Stocks July 31, 1957
	million bu.	bu.	bu.	bu.	bu.
Moose Jaw. Saskatoon. Calgary. Edmonton. Lethbridge. Prince Rupert.	5.50 5.50 2.50 2.35 1.25 1.25	5,020,858 3,807,796 1,742,266 873,170 1,167,245 956,583	1,178,847 3,360,049 2,160,721 1,694,169 597,682 8,048,192	803,982 3,891,856 2,625,927 1,722,057 1,073,176 8,650,870	5,395,723 3,272,128 1,277,060 842,982 692,714 349,697
Totals	18.35	13,567,918	17,039,660	18,767,868	11,830,304

## Charges

Storage and elevation charges at the interior terminals remained unchanged. Storage charges were 1/45c per bushel per day. Storage charges at Prince Rupert were increased on September 13, 1956 from 1/35c per bushel per day to 1/30c per bushel per day, the same as in effect at the Lakehead and other Pacific Coast elevators. The same applies to elevation charges but at interior elevators, elevation charges on wheat, oats, barley and corn at 1½c per bushel were lower by 1c and on rye at 1½c per bushel and flax at 2¼c per bushel were lower by 1½c per bushel than charges at Lakehead and other Pacific terminal elevators.

#### Maintenance

Elevator buildings, equipment and trackage were maintained in good repair. The installation of a Dust Control System in the Moose Jaw elevator commenced in 1956 was completed in September, 1957. A similar installation is in progress at the Saskatoon elevator and is scheduled for completion in September, 1958. Fire Escapes and Stairwell Enclosures were completed at all elevators. Repairs to concrete surfaces at the Edmonton elevator were completed. Similar repair at the Port Arthur elevator is scheduled for completion in 1958. The first phase of converting the Morris Steam Drier at the Moose Jaw elevator to a direct oil heat system was completed.

Complete new Man-Hoists were installed in the Moose Jaw, Saskatoon and Calgary elevators replacing obsolete and worn out equipment.

A start has been made toward equipping Millwright workshops throughout with power tools to enable repairs to be made in the plant instead of being sent to outside shops as formerly. This will save time and reduce repair costs.

#### Staff

Staff employed as at December 31, 1957, compared with figures at December 31, 1956, is as follows:

	198	57	195	56
	Continuing Establish- ment	Casuals	Continuing Establish- ment	Casuals
Winnipeg (Head Office) Moose Jaw Saskatoon Calgary Edmonton Lethbridge Prince Rupert	31 29 32 30 19	$     \begin{array}{r}                                     $	8 27 26 30 27 18 23	4 15 6 13 1 24
	178	33	159	63

## Revenue and Expenditure

Revenue and expenditure for the fiscal year 1956-57 compared with the previous fiscal year were as follows:

- 200 (2004)	1956-57	1955-56
Revenue Expenditure.	\$1,982,430 1,323,293	\$1,634,032 1,143,983
Surplus	659,137	490,049

For the first nine months of the current fiscal year revenue was \$1,480,470 and expenditure was \$880,554.

# APPENDIX J

Table J-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year ended March 31, 1957

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$	\$	\$	\$	\$
WINNIPEG Executive Assistant Commissioners License and Bonding Registration. Research Laboratory Statistics Appeal Tribunal	58,958.03 11,139.96 25,100.98 34,366.44 157,685.66 82,876.22 9,443.27	9,129.68 836.80 2,100.00 3,135.00 18,838.00 6,603.32 589.08	5,741.98 1,633.57 22.15 384.10 7,215.56 953.30	12,634.75 331.38 2,245.28 1,479.19 45,591.50 27,645.86 1,602.29	86,464.4 13,941.7 29,468.4 39,364.7 229,330.7 118,078.7 11,634.6
Standards Committee Inspection Weighing	638,626.90 61,420.44	26,325.72 1,560.40	3,961.85 4,152.42 571.80	2,750.00 39,103.85 1,069.99	6,711.8 708,208.8 64,622.6
CHURCHILL Inspection Weighing	22,349.28 12,094.04	_	6,005.65 3,421.38	1,009.39 342.94	29,364.33 15,858.36
KEEWATIN Inspection Weighing	6,815.40 9,162.64	=	_	20.40 58.46	6,835.86 9,221.10
REGINA Assistant Commissioner	11,285.41	1,897.56	2,391.66	407.21	15,981.8
SASKATOON Assistant Commissioner Inspection Weighing	11,980.98 38,868.24 30,001.57	877.00	1,730.56 671.69	182.92 1,064.47 31.50	13,894.4 40,809.7 30,704.7
Moose Jaw Inspection Weighing	34,873.36 18,455.29	1,440.00	154.39 574.79	1,226.19 31.83	37,693.9 19,061.9
MEDICINE HAT Inspection Weighing	11,340.00 11,520.89	841.00		277.93 38.70	12,458.9 11,559.5
LETHBRIDGE Inspection Weighing	10,570.24 4,630.00		_	141.13 11.75	10,711.3 4,641.7
CALGARY Assistant Commissioner Inspection Weighing Appeal Tribunal	1,976.66 107,075.96 50,080.04 6,120.00	138.00 6,581.00 712.34 892.50	323.32 723.21 1,205.06	37.95 4,408.18 419.43 1,200.33	2,475.9 118,788.3 52,416.8 8,212.8
EDMONTON Assistant Commissioner Inspection Weighing Appeal Tribunal	9,883.30 121,208.53 13,700.76 6,120.00	1,660.00 8,764.00 — 1,170.00	3,943.81 107.90 70.70	679.78 4,593.46 115.28 891.78	16,166.8 134,673.8 13,886.7 8,181.7
VANCOUVER Inspection. Weighing. Registration	195,575.55 181,266.60 10,776.78	6,965.40 2,675.40 1,795.20	158.90 223.32	6,266.16 2,814.68 301.83	208,966.0 186,980.0 12,873.8

Table J-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year ended March 31, 1957—Concluded

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$	\$	\$	\$	\$
VICTORIA Inspection Weighing	9,030.69 7,985.10		443.20 62.00	7.00	9,480.89 8,047.10
PRINCE RUPERT Inspection Weighing	12,537.98 10,143.22	_	597.81 223.26	74.00 76.00	13,209.79 10,442.48
FORT WILLIAM Inspection Weighing	792,421.20 610,660.80	19,598.00 4,210.00	4,951.94 21,780.39	14,871.57 8,481.64	831,842.71 645,132.83
TORONTO Inspection Weighing	8,756.24 4,380.00	1,200.00	516.70	853.02 4.00	11,325.96 4,384.00
CHATHAM Inspection	39,026.96	1,380.00	13,653.98	1,470.82	55,531.76
Ottawa Inspection		499.00	3,748.02	928.77	5,175.79
MONTREAL Inspection Weighing Registration	114,062.58 5,077.50 14,700.00	4,296.00 939.36 1,664.64	12,156.01 460.67	4,142.23 853.16 989.58	134,656.82 7,330.69 17,354.22
Totals	3,646,131.69	139,314.40	104,937.05	193,779.56	4,084,162.70

Table J-2.—Accrued Revenue, by Point and Branch, Fiscal Year ended March 31, 1957

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
0.00	\$	\$	\$	\$
WINNIPEG			400.00	400.00
ExecutiveLicense and Bonding	29,254.00		460.00	460.00 29,254.00
Registration	33,499.43		7.00	33,506.43
Appeal Tribunal	2,133.00			2,133.00
Research Laboratory			3.68*	3.68
Inspection	431,834.25	11,998.13	5,347.60	449,179.98
Weighing	27,647.57	-	2,320.98	29,968.55
Churchill				
Inspection	52,156.64			52,156.64
Weighing	26,264.32			26,264.32
KEEWATIN				
Inspection	6,020.40	486.64	407.16	6,914.20
Weighing	7,537.58			7,537.58
SASKATOON				
Inspection Weighing	26,765.63	873.93		27,639.56
Weighing	14,828.21	_		14,828.21
Moose Jaw				
Inspection		482.40		15,225.3
Weighing	7,733.60			7,733.60

Table J-2.—Accrued Revenue, by Point and Branch, Fiscal Year ended March 31, 1957—Concluded

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
	\$	\$	\$	\$
Medicine Hat Inspection Weighing		324.17	1,127.35	11,545.10 13,545.49
LETHBRIDGE Inspection Weighing		146.05	_	2,693.05 485.00
Calgary Inspection Weighing Appeal Tribunal	18,390.26	2,305.36	406.51 1,183.80	105,797.20 19,574.06 1,422.00
EDMONTON Inspection Weighing Appeal Tribunal	4,810.59	1,960.88	439.25 8.64 —	101,718.39 4,819.23 969.00
VANCOUVER Inspection Weighing Registration	218,402.86	8,852.53 ——	552.20 355.95	288,768.12 218,758.81 11,853.73
VICTORIA Inspection Weighing		131.32	_	6,775.95 5,095.47
PRINCE RUPERT Inspection Weighing	17,364.87 12,655.16	154.07		17,518.94 12,655.16
FORT WILLIAM Inspection Weighing		14,710.22	4,347.25 4,798.42	808,336.47 611,577.39
Toronto Inspection Weighing		90.00	166.07	3,729.10 4,380.00
CHATHAM Inspection	47,816.37	868.68	1,285.89	49,970.94
MONTREAL Inspection Registration	21,182.35 11,588.68	511.74	868.60	22,562.69 11,588.68
Totals	2,970,962.62	43,896.12	24,086.35	3,038,945.09

<sup>(</sup>a) Details in Table J-4.

<sup>\*</sup>Refund of Previous Year's Expenditure.

Table J-3.—Accrued Revenue and Net Expenditure, by Points and Branches, Fiscal Year ended March 31, 1957

Total	\$		544,505.64 78,420.96 14,451.78 42,467.77 22,958.97 25,090.59 31,78.05 1126,793.26 107,506.62 519,380.66 11,871.42 30,174.10 49,970.94 34,151.37	460.00 3,038,945.09
Adminis- tration	89		460.00	460.00
Grain Standards Committee	€			1
Research Laboratory	89		3.68	3.68
Statistics	8			
License and Bonding	89	REVENUE	29,254.00	29,254.00
Registra- tion	€	REV	33,506.43	56,948.84
Appeal Tribunals	€		2,133.00	4,524.00
Weighing	€9		29,968.55 26,264.32 7,537.58 14,828.21 7,733.60 13,545.49 4,819.23 218,758.81 2,095.47 12,655.16 611,577.39 4,380.00	977,222.87
Inspection	€9		449,179.98 52,156.64 6,914.20 27,639.56 11,525.37 11,545.10 2,639.70 101,718.39 288.768.12 6,775.95 17,518.39 288,768.12 17,518.39 288,768.12 17,518.39 288,736.47 3,729.10 49,970.94 22,562.69	1,970,531.70
Monthly with			Winnipeg Churchill Keewatill Keewatill Koose Jaw Moose Jaw Medicine Hat Lethbridge Calgary Vancouver Vancouver Victoria Prince Rupert Fort William Toronto Chatham Montreal	Totals

Table J-3.—Accrued Revenue and Net Expenditure, by Points and Branches, Fiscal Year ended March 31, 1957—Concluded

Total	\$		1,307,826.72 45,222.68 16,056.90 85,408.93 56,755.85 24,018.84 15,331.22 15,331.22 172,999.30 408,819.82 17,527.99 23,652.27 1,476,975.54 115,709.56 55,531.76 159,341.73 5,175.79	148,925.27 4,084,162.70
Adminis- tration	89		13,894.46 13,894.46	148,925.27
Grain Standards Committee	€9		6,711.85	6,711.85
Research	€		229,330.72	229,330.72
Statistics	€9		118,078.70	118,078.70
License and Bonding	89	EXPENDITURE	29,468.41	29,468.41
Registra-	€9	EXPEN	39,364.73	69,592.76
Appeal Tribunals	89		11,634.64	28,029.25
Weighing	€9		64,622.63 15,858.36 9,221.10 30,704.76 19,061.91 11,559.59 4,641.75 52,416.87 13,886.74 186,980.00 8,047.10 10,442.48 645,132.83 4,384.00 7,330.69	1,084,290.81
Inspection	<del>69</del>		708,208.89 29,364.32 6,835.80 40,809.71 37,693.94 12,488.35 10,711.37 118,788.35 134,678.83 13,209.79 831,842.71 11,325.96 55,531.76 134,656.82 55,531.76	2,369,734.93 1,084,290.81
			Winnipeg Churchill Keewatin Saskatoon Moose Jaw Medicine Hat Lethbridge. Regina Calgary Edmonton Vancouver Victoria. Prince Rupert Fort William Toronto. Chatham Montreal	Totals

Table J-4.—Summary of Operations by Branches, Fiscal Year ended March 31, 1957

	Inspection	Weighing	Appeal Tribunals	Registra- tion	License and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Adminis- tration	Total
	\$	€÷	€÷	€€	€€	€	€÷	69	89	€
				REV	REVENUE					
Fees. Samples Sold.	1,912,815.05	967,427.73	4,524.00	56,941.84	29,254.00					2,970,962.62 43,896.12
Other Revenue: Overtime Refunded Express Charges Jury Fees Fines	9,348.12 4,463.90	9,734.87							460.00	19,082.99 4,463.90 48.00 460.00
Year's Expenses.			1			1.	3.68			3.68
Revenue	8.51	12.27		7.00						27.78
Totals	1,970,531.70	977,222.87	4,524.00	56,948.84	29,254.00		3.68		460.00	460.00 3,038,945.09
				EXPEN	EXPENDITURE					
Salaries. Rent. Travel General Expenses.	2,163,139.11 78,767.12 47,370.13 65,508.50	1,030,578.89 10,097.50 29,265.06 10,568.47	21,683.27 2,651.58 3,682.65	59,843.22 6,594.84 384.10 2,118.53	25,100.98 2,100.00 22.15 1,305.19	82,876.22 6,603.32 953.30 4,870.12	157,685.66 18,838.00 7,215.56 41,347.51	3,961.85	105,224.34 13,662.04 15,764.90 12,669.81	3,646,131.69 139,314.40 104,937.05 144,820.78
Printing and Stationery	14,950.07	3,780.89	11.75	652.07	940.09	22,775.74	4,243.99		1,604.18	48,958.78
Totals	2,369,734.93	1,084,290.81	28,029.25	69,592.76	29,468.41	118,078.70	229,330.72	6,711.85	148,925.27	148,925.27 4,084,162.70

### APPENDIX K

## Regulations

Regulations in effect December 31, 1957, made in accordance with the provisions of the Canada Grain Act

# Regulation

#### No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
- 3 Plans re Terminal and Eastern Elevators.
- 4 Cleaning Grain and Bins, Terminal and Eastern Elevators.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples taken other than at an Inspection Point.
- 9 Appeals from Inspecting Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
- 22 Maximum Tariff of Charges, Terminal Elevators.
- 23 Applications for Licences and Terms and Conditions under which Licences are issued.
- 24 Storage in Transit of Grain Grown Outside Canada.
- 25 Tickets and Receipts—Country Elevators.
- 26 Grain Treated with Poisonous Materials.
- 27 Shipment of Infested Grain.

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Date Due

Storage in Transit of Grain Grown Outside Canada.

Tickets and Receipts—Country Elevators.

Grain Treated with Poisonous Materials.

Shipment of Infested Grain.

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